



BIOTECHNOLOGY AND LIFE SCIENCE

CYCLE	XXXVIII
COORDINATOR	Prof. Marco VENTURA email: marco.ventura@unipr.it Department of Chemistry, Life Sciences and Environmental Sustainability
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A)	
<ul style="list-style-type: none"> • Environmental • Biomolecular • Genetics and microbiology 	
TRAINING OBJECTIVES	
<p>The PhD in Biotechnology and Biosciences aims to train experts who can carry out advanced research activities in the biological disciplines and biotechnology. The Doctor's research themes concern the study of the function, organization and expression of the genome of microbial, plant and animal organisms (including humans), to deepen their basic knowledge, also in view of possible applications in biotechnology. The methodologies used are mainly those of genetic, microbiology, molecular biology, biochemistry and applied biology. Starting from this common objective and from a highly cross-cutting advanced teaching activity, in order to train PhDs with highly qualified skills in specific areas of Biotechnology and Life Sciences, three main areas of research defined as such: 1) environmental; 2) genetics and microbiology; 3) biochemical-molecular. PhD students will be involved full-time in a research project, to which they will also make critical and proactive contributions. In this way, they will acquire a marked scientific and management autonomy, also thanks to the numerous scientific, national and international collaborations in which they will be involved.</p>	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>

POSITIONS PUT OUT TO COMPETITION	7	With Scholarship	7
Position with Scholarship			
N°	Funding entity	Research Topic	
3	Scholarship funded by University of Parma (Ministerial funds)	<ul style="list-style-type: none"> • Environmental • Biomolecular • Genetics and microbiology 	
1	Scholarship funded by University of Parma (University funds)	<ul style="list-style-type: none"> • Biomolecular 	
1	Scholarship co-funded by Fondazione Cariparma	<ul style="list-style-type: none"> • Environmental 	

Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 7 “PNRR Research”) 	<ul style="list-style-type: none"> The topic of the research encompasses the role of foods as a vehicle for the delivery of microbial communities influencing the health status of the host through a modulation of the intestinal microbiota composition
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Chiesi Farmaceutici S.p.A. 	<ul style="list-style-type: none"> The topic of the research includes the molecular characterization of preclinical model of lung diseases

ADMISSION PROCEDURES

Assessment of QUALIFICATIONS: up to 40 points
(a minimum score of 18 points shall be required to be admitted to the Oral Exam)
ORAL EXAM: up to 80 points
Minimum score for ELIGIBILITY: 70/120

Foreign Language

Language the fluency of which shall be assessed during the Oral Exam: **ENGLISH**.
The evaluation of the knowledge of this language will be oral and will consist in reading and translating of a scientific text.

APPLICANTS ADMITTED TO THE ORAL EXAM WILL TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE FOR PROVEN REASONS

(The Oral Exam takes place in the presence.; The remote oral exam is allowed for candidates residing abroad or temporarily abroad for study / work reasons or in isolation / quarantine for COVID-19 virus infection. To this end, candidates must submit **a motivated REQUEST** as per the model attached to the competition announcement)

THE INTERVIEW MAY BE HELD ALSO IN ENGLISH

LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT

MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION

ANNEX A	(art. 5 of the Competition notice)
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree thesis	Abstract of the second cycle master’s degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)
Qualifications	Certificates and academic transcript of records for both Bachelor’ and Master’ degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).

FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)		
Scientific Publications	Articles on national and international journals, papers presented at conferences or symposia, book chapters and indexed national publications.	
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program	
Other experiences (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> – Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes) – Other qualifications attesting the suitability of the applicants (scholarships or research grants, awards, etc.) 	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	<p>Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.</p> <p>The marks of the exams and the graduation mark will be the most relevant element of the evaluation.</p>	Up to 5 points
Graduation mark	<p>Score related to the final mark:</p> <ul style="list-style-type: none"> - 110 with honours (magna cum laude): 20 points; - 110: 18 points; - From 103 to 109: points 4-16 (2 points for each mark unit); - Until 102: 3 points. 	Up to 20 points
Average of the exam marks (if the candidate will attain the degree no later than 24 October 2022)	<p>Score related to the average of the exam marks:</p> <ul style="list-style-type: none"> - 30/30: 18 points; - From 22/30 to 29/30: points 2-16 (2 points for each unit average score) 	Up to 18 points
Graduation thesis	Consistency of the Master's Degree thesis with the doctoral program research topics (briefly describe the topics in the curriculum vitae)	Up to 6 points
Scientific publications	Publications in <i>peer-reviewed</i> international journals: 2 points for each publication (for evaluation purposes it is mandatory to attach a pdf copy of each publication to the application)	Up to 6 points
Communications to conferences, publication in indexed national journals, book chapters	1 point for each conference abstract, publication in indexed national journals or book chapters (for evaluation purposes it is mandatory to attach a pdf copy of each term to the application)	Up to 3 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM is intended to assess the aptitude of the applicant to the research as well as the general knowledge of issues connected to the PhD course	<p>The Oral Exam will focus on critical reading and discussion of a scientific article chosen by the candidate among those proposed by the Committee within the each of the three main research topics. Candidates will be asked by the Committee members to discuss and explain the contents of the scientific publication they have selected.</p> <p>During this Oral Exam and interview, knowledge of the English language will also be evaluated.</p>	Up to 80 points

SCHEDULE OF THE ADMISSION EXAMS




ORAL EXAM	DATE	15 September 2022 (with possible extension in the following days)
	TIME	09:00 AM (Italian Time)
	PLACE	AULE A and B PODERE LA GRANDE Campus Universitario 43124 PARMA - ITALY
OTHER INFORMATION		<p>The applicant MUST indicate in the application his/her preference for one of the three main research topics proposed in the selection announcement (Environmental, Genetics and microbiology, Biomolecular).</p> <p>For foreign candidates, admission examinations may be held in English as per candidate's request.</p>



ECONOMICS & MANAGEMENT OF INNOVATION AND SUSTAINABILITY (EMIS)

CYCLE	XXXVIII
COORDINATOR	Prof.ssa Beatrice LUCERI Department of Economics and Management email: Beatrice.luceri@unipr.it
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
PARTNER INSTITUTION	<ul style="list-style-type: none"> University of Ferrara University Cattolica del Sacro Cuore
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> Regulatory aspects and effects of agricultural and agri-food policies Branding and value creation Consumer behavior and marketing management Determination and communication of value in businesses Knowledge economy, organization, human capital and labour Culture economics: management and policies Environmental and natural resources economics Economics and public management Economics and industrial and development policy Finance and risk management Health care and health management Performance evaluation, balance analysis and business management auditing New entrepreneurship, business strategy and management development Intangible resources and management systems, financial and non-financial assessment and reporting Economic decisions under uncertain contexts Regional and territorial systems 	
TRAINING OBJECTIVES	
<p>The course is designed to train Ph.D. students having a background in economic-business and economic-political, according to a theoretical and quantitative perspective and integrating – as a particular specificity of the course – economic, management, and mathematical-statistical tools. The aim is to provide students with the knowledge and skills useful for successful employability in academia, in companies or public authorities in job positions with a strong research connotation in the regional, Italian and European labor markets.</p> <p>To this end, the Ph.D. program is structured to develop:</p> <ul style="list-style-type: none"> - a solid knowledge of the processes of business management and organization, as well as the processes of management of socio-economic phenomena and policy at regional and macroeconomic levels, through the completion of the basic preparation and the learning of appropriate research methodologies; - a specialized theoretical and applicative preparation in the specific research area in which the Ph.D. program has declined the innovation and sustainability topic. <p>The educational objectives are achieved by offering a set of courses on consolidated and innovative research methods in the social sciences, qualitative and quantitative analysis tools and on the most relevant theoretical perspectives, with a strong interdisciplinary approach. Specifically, the first year is devoted to transferring the basic knowledge needed to appropriately structure the research project. The courses deal with bibliographic research, research design, quantitative and qualitative research techniques, tools for analyzing qualitative and quantitative data, and decision-making models of different economic actors. Starting from the second year, specific research activities, lectures and seminars consistent with the Ph.D. student's field of research, as well as courses aimed at the development of soft skills, language skills, and computer skills, complete the training. At the same time, the Ph.D. student starts writing the thesis that represents the main commitment of the third year.</p>	

Special emphasis is placed on international mobility and periods of study abroad at qualified research institutions, aimed at individual growth and the advancement of the doctoral thesis project. In summary, a training course that, after providing the methodological foundations of scientific research, is custom designed on the specific interests and skills of each Ph.D. student.

ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – "Laurea Magistrale" LM-16 Finance – "Laurea Magistrale" LM-31 Management Engineering – "Laurea Magistrale" LM-35 Environmental Engineering – "Laurea Magistrale" LM-40 Mathematics – "Laurea Magistrale" LM-52 International relations – "Laurea Magistrale" LM-56 Economics – "Laurea Magistrale" LM-62 Political Science – "Laurea Magistrale" LM-63 Public Administration – "Laurea Magistrale" LM-76 Environmental and cultural economics – "Laurea Magistrale" LM-77 Management – "Laurea Magistrale" LM-81 Development co-operation – "Laurea Magistrale" LM-82 Statistics – "Laurea Magistrale" LM-83 Actuarial, Financial and Economic Statistics – "Laurea Magistrale" LM-90 European studies <p>as well as the equivalent "laurea specialistica" or "laurea" achieved based on the university system in force before the entry into force of Italian Ministerial Decree No. 509/99</p> <ul style="list-style-type: none"> – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>
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POSITIONS PUT OUT TO COMPETITION	15	With Scholarship	14
		With Scholarship reserved for candidates that have achieved degree abroad	1
Position with Scholarship			
N°	Funding entity	Research Topic, if any	
2	Scholarship funded by University of Parma (Ministerial funds)	---	
3	Scholarship funded by University of Ferrara	---	
1	Scholarship funded by University Cattolica del Sacro Cuore	---	
1	Scholarship co-funded by Fondazione Cariparma	---	
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)			
During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.			
N°	Funding entity	BOUND RESEARCH TOPIC	
1	Scholarship financed by University Cattolica del Sacro Cuore under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 8 “Public Administration”)  Finanziato dall'Unione europea NextGenerationEU  Ministero dell'Università e della Ricerca  MUR Ministero dell'Università e della Ricerca	Management innovation in Public Administration The project is intended to investigate PA governance and management systems with the aim of identifying structures, practices and tools capable of accelerating innovation processes. Within the same framework is the activity aimed at investigating the necessary skills that will provide the basis and operational tools to carry out reforms, changes and adaptations with a view to deep renewal. Particularly	

		<p>relevant will be the issue of change-management, the propulsive heart of those renewal and innovation actions required by the changed social, environmental and economic context and by the PNRR itself.</p> <p>With reference to PA and innovation, it is of primary importance to investigate the areas most affected by the recent evolution of all socio-economic, as well as human-relational, systems, in order to identify the risks related to any intrinsic rigidities in the management and governance system and the main opportunities related to change. The construction of a mapping of what are to date the active best practices and the main enabling factors for innovation will lead to selecting the adaptation/change paths most in line with the conditions of the reference context and the current historical period.</p> <p>Scientific coordinator: Prof. Francesco TIMPANO – Catholic University of the Sacred Heart</p>
<p>1</p>	<p>Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 7 “PNRR Research”)</p> <p> Finanziato dall'Unione europea NextGenerationEU</p> <p> <i>Ministero dell'Università e della Ricerca</i></p> <p> MUR Ministero dell'Università e della Ricerca</p>	<p>Sustainable assortments and integrated supply chain management</p> <p>The project aims to analyze sustainable strategies adopted by retailers with reference to assortment management. The main focus will be on factors driving products selection with a particular interest in private labels, that are entirely developed and managed by retailers.</p> <p>The research will also focus on consumer behavior investigating consumers’ attitude, perception and behavioral intention towards sustainable choices. Interest will be focused on the role of digital technologies in environmental transition. In this context, the development and use of mobile apps in supporting sustainable policies, namely in facilitating consumers’ virtuous behaviours, will be analyzed.</p> <p>Scientific Coordinators: Proff. Guido CRISTINI, Sabrina LATUSI and Donata Tania VERGURA – University of Parma.</p>
<p>4</p>	<p>Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 8 “Public Administration”)</p> <p> Finanziato dall'Unione europea NextGenerationEU</p> <p> <i>Ministero dell'Università e della Ricerca</i></p> <p> MUR Ministero dell'Università e della Ricerca</p>	<p>1. Organisation and performance of Public Administration</p> <p>Good performances in terms of services’ quality and capacity to manage risks among public organizations are strictly related to competencies of people working within such organizations. Therefore, there’s a strong need to develop and incentivize the improvement of these skills.</p> <p>The research project aims to define management and leadership competencies that will be needed in public organizations in the forthcoming years.</p> <p>The PhD student will have the chance to improve his/her knowledge of the Italian public system, through empirical and in-depth case studies analyses. He/She will also collaborate with major public entities across the whole national territory (Universities, health organizations, schools, local authorities, penitentiary institutions, etc.). Results of his/her work will be presented at national and international conferences.</p> <p>Furthermore, the PhD student will be entitled to spend a period of time abroad, in order to acquire new competencies and get to know new contexts.</p> <p>Scientific coordinator: Prof. Antonello ZANGRANDI - University of Parma.</p> <p>2. Technological innovation in healthcare enterprise management: the telemedicine</p> <p>Telemedicine represents today one of the greatest innovation in the field of health technologies. It grants equal access to health services, stamping out possible waste of resources and allowing upstanding performances.</p>

The research project aims to assess the implementation and management of tele-medicine services according to effectiveness and efficiency principles.

The PhD student will be asked to study the elements guiding the technological innovation among health organizations, with a multidisciplinary approach.

He/she will gain a strong knowledge of the Italian public health context, thanks to different collaborations with major public health organizations (University-hospitals, IRCCS, public hospitals, etc.). Results of his/her work will be then presented to national and international conferences.

Furthermore, the PhD student will be entitled to spend a period of time abroad, in order to acquire new competencies and get to know new contexts.

Scientific coordinator: Prof. Antonello ZANGRANDI - University of Parma.

3. Reform of the PA and local government accounting

In 2026 all Italian local authorities are anticipated to implement accrual accounting systems. This is one of the major outcomes of reforms related to the PNRR (National recovery and resilience plan) that will invest the world of public accounting and, as such, it will have a strong impact on all the organizations financially struggling.

Furthermore, considering the legal obligations related to the PNRR, the financial struggles of local municipalities are even more significant, as they may prevent the reaching of all goals stated by the PNRR.

The PhD student will be asked to sketch what critical factors can lead to financial distress for local authorities, isolating potential solutions for critical situations.

He/she will gain a strong knowledge of the Italian public accounting principles, and will collaborate with major public local authorities (municipalities, regions, etc.). Results of his/her work will be then presented to national and international conferences.

Furthermore, the PhD student will be entitled to spend a period of time abroad, in order to acquire new competencies and get to know new contexts.

Scientific coordinator: Prof. Marco FERRETTI - University of Parma.







4. Companies with public participation: opportunities and critical issues

Financial distress for municipal organizations is often related to the companies in which a stake is held and their impact on the holding accounting.

In light of this, the project's aim consists in identifying suitable models to assess subsidiaries performances, in order to prevent potential financial struggling for the whole holding.

The object of the research will consist in: risk management assessment, balance sheets analyse as well as management control evaluations. The PhD student will thus focus his/her work on these fields and provide useful insights for scholars and managers.

These activities will improve the PhD student knowledge of the Italian public system, through empirical and in-depth analyses of different cases. The PhD student will also collaborate with major public holdings. Results of his/her work will be then presented to national and international conferences.

		Furthermore, the PhD student will be entitled to spend a period of time abroad, in order to acquire new competencies and get to know new contexts. Scientific coordinator: Prof. Marco FERRETTI - University of Parma.
1	<p>Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company NielsenIQ Italy S.r.l.</p> <p> Finanziato dall'Unione europea NextGenerationEU</p> <p></p> <p></p>	<p>Models of sustainable nutrition, health and well-being of citizens</p> <p>NielsenIQ, leading global market research, and big data company, supports the research activity within the Ph.D. EMIS by providing a scholarship aimed at setting up an observatory on fresh products. Despite these categories being of high importance for the supply chain in the food sector, there is currently a lack of a consolidated measurement system that can provide useful data to guide business choices.</p> <p>Through analytical tools and the use of NielsenIQ databases, together with the skills gained during the Ph.D., the candidate will be able to design innovative systems for measuring the performance of these categories. The research activity will produce valuable results for manufacturers and retailers that can identify effective ways to promote proper nutrition for the health of citizens and collective well-being.</p> <p>Scientific Coordinators: Proff. Silvia BELLINI and Davide PELLEGRINI - University of Parma.</p>
1	<p>Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company PRO.GE.A. S.r.l.</p> <p> Finanziato dall'Unione europea NextGenerationEU</p> <p></p> <p></p>	<p>Quality and risk management in health care companies</p> <p>Progea Srl is a leading company in the field of consulting and education for health organizations in Italy, and it will co-fund a PhD study grant at University of Parma.</p> <p>The focus of the research will consist in the analysis of organizational variables impacting on risk management and quality performances of health organizations across the country.</p> <p>The PhD student will be asked to study organizational models concerning quality processes and risk management assessment among Italian hospitals.</p> <p>He/she will gain a strong knowledge of the Italian public health context, thanks to different collaborations with major public health organizations (University-hospitals, IRCCS, public hospitals, etc.). Results of his/her work will be then presented to national and international conferences.</p> <p>Furthermore, the PhD student will be entitled to spend a period of time abroad, in order to acquire new competencies and get to know new contexts.</p> <p>Scientific coordinator: Prof. Marco FERRETTI - University of Parma.</p>

ADMISSION PROCEDURES	<p>Assessment of QUALIFICATIONS: up to 75 points (a minimum score of 50 points shall be required to be admitted to the Oral Exam)</p> <p>ORAL EXAM: up to 45 points</p> <p>Minimum score for ELIGIBILITY: 70/120</p>
Foreign Language	<p>Language the fluency of which shall be assessed during the Oral Exam: ENGLISH.</p> <p>The evaluation of the knowledge of this language will be oral and will consist in presenting a part of the research project in English.</p>
<p>CANDIDATES ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE</p> <p>(Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)</p>	

THE INTERVIEW MAY BE HELD ALSO IN ENGLISH

LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT

MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION	
ANNEX A	(art. 5 of the Competition notice)
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)
Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).
Research Project	Written in Italian or in English, according to the format attached to the competition notice It will have to focus on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use of IT tools useful for verifying the originality of the submitted Project) <u>It does not represent a constraint with respect to the following choice of the doctoral thesis, which will be assigned by the Academic Board.</u>
FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)	
Statement of Research interest	Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests
Scientific Publications	Articles and/or reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program
Other experiences (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> – Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covered by research grant, and as a staff member of research units – Working activity – Professional and/or training internship – Language proficiency certificates – Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes) – Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) Continuous and lasting experiences will be privileged - at least one semester - and will be evaluated only if they are recognized as functional to the acquisition of skills, experience and qualification within the research areas of the PhD course
EVALUATION CRITERIA	

QUALIFICATION		EVALUTATION CRITERIA	POINTS
Graduation mark (Average of the exam marks for the candidate will attain the degree no later than 24 October 2022)		Score related to the final mark or to the average of the exam marks for graduands.	Up to 12 points
Other qualifications		Qualified professional experiences (in the case of professional experiences, continuous and lasting ones will be privileged - at least one semester - and will be evaluated only if they are recognized as functional to the acquisition of skills, experience and qualification in the research areas covered by the specific doctoral course); other academic qualifications (masters, advanced courses, at least two-monthly training courses provided by university-level training institutions or bodies); didactic, seminar or university training experiences.	Up to 12 points
Scientific publications		The assessment will be carried out with a view to accessing the PhD course and taking into account the degree of maturity required for the specific position. Only publications of which a copy has been included among the qualifications presented will be evaluated and not any publications cited exclusively in the curriculum and / or in the form of a list.	Up to 6 points
Graduation thesis		Congruence with the research topics of the PhD course and quality of the research methodology	Up to 15 points
Research Project		The project will be evaluated based on the scientific value, the originality of the proposal, the articulation, the feasibility of the proposal and the consistency with the themes of the doctorate.	Up to 24 points
Statement of Research Interest		The motivation and interest in attending the PhD course will be evaluated.	Up to 6 points
ORAL EXAM		EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course		<ul style="list-style-type: none"> ○ knowledge of the foreign language: max 10 points ○ research project presentation: max 35 points 	Up to 45 points
SCHEDULE OF THE ADMISSION EXAMS			
ORAL EXAM	DATE	19 September 2022 (with possible extension to 20 September 2022)	
	TIME	09:00 AM (Italian Time)	
	PLACE	Department of Economics and Management Via J.F. Kennedy, 6 43125 PARMA - ITALY	
OTHER INFORMATION		For foreign candidates, the admission examinations may be held in English at the candidate's choice.	

PHYSICS

CYCLE	XXXVIII		
COORDINATOR	Prof. Stefano CARRETTA email: stefano.carretta@unipr.it Department of Mathematical, Physical and Computer Sciences		
DURATION	3 years		
STARTING DATE OF THE PHD PROGRAM	01/11/2022		
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)			
<ul style="list-style-type: none"> • Spectroscopic characterization of minerals interesting for the environmental sciences • Computational and theoretical models of single neuron dynamics and collective dynamical regimes of neuronal activity in non-human primates (<i>Bound research topic</i>) • Molecular spins for Quantum Technologies beyond the qubit encoding (<i>Bound research topic</i>) • Methods to find the super-spreaders in complex networks • Emulsion Dynamics on Earth and in Microgravity • Gauge Theories and Holography at the Crossroads • Precision tests of fundamental physics from the Large Scale Structure of the Universe (<i>Bound research topic</i>) • Artificial intelligence models: development and application on in vivo X-ray imaging in drug discovery (<i>Bound research topic</i>) • Nonlinear evolution in open many-body quantum systems 			
TRAINING OBJECTIVES			
<p>The PhD in Physics, with a duration of 3 years, is established as a unifying element of the third-level University education in the Physics area. Besides their main commitment to the research activity, students are supposed to spend a substantial part of their training period in attending advanced courses as well as national and international schools. Students are encouraged to spend part of their time abroad, in order to participate in scientific collaborations in their fields of interest, and follow advanced courses in support of their research program. During the three years, teaching commitments are progressively reduced towards a full time engagement in the research activity. The evaluation of the training program is carried out - at the end of each year - through open seminars held by the students. The independent scientific research is expected to lead to publication of results in international, peer reviewed journals. The ultimate goal of the PhD in Physics is a highly specialized scientific training that opens professional carriers in academic institutions and research laboratories, either public or private. The PhD in Physics is divided into three areas corresponding to major groups of disciplines of Physical Sciences covered by the research activity of the Department of Mathematical, Physical and Computer Sciences: Condensed Matter and Materials Physics, Theoretical Physics, Biophysics and Applied Physics.</p>			
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>		











POSITIONS PUT OUT TO COMPETITION	9	With Scholarship	9
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Position with Scholarship

N°	Funding entity	Research Topic, if any
3	Scholarship funded by University of Parma (Ministerial funds)	---
1	Scholarship co-funded by Fondazione Cariparma	---

Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Medicine and Surgery (Project ERC CoG "EMACTIVE")  European Research Council Established by the European Commission	<ul style="list-style-type: none"> Computational and theoretical models of single neuron dynamics and collective dynamical regimes of neuronal activity in non-human primates
1	Scholarship funded by INFN – The Italian National Institute for Nuclear Physics	<ul style="list-style-type: none"> Precision tests of fundamental physics from the Large Scale Structure of the Universe
1	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 7 "PNRR Research")  Finanziato dall'Unione europea NextGenerationEU  	<ul style="list-style-type: none"> Molecular spins for Quantum Technologies beyond the qubit encoding
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Chiesi Farmaceutici S.p.A.  Finanziato dall'Unione europea NextGenerationEU  	<ul style="list-style-type: none"> Artificial intelligence models: development and application on in vivo X-ray imaging in drug discovery
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.4 NATIONAL CENTER for sustainable mobility  Finanziato dall'Unione europea NextGenerationEU  	<ul style="list-style-type: none"> Inference and reconstruction of mobility temporal networks and mobility flows in urban areas Temporal complex networks represent an ideal field of research for the study of interacting social systems within cities and collaborative environments and are used to effectively monitor the evolution of communities, movement and interaction with the environment and services. The proposed research project is embedded in this research area and is developed within the National Center for Sustainable Mobility activities funded by PNRR projects. In this project, theoretical and numerical models will be developed for mobility flows and patterns of aggregation and higher order interaction within urban areas and the University Campus of Parma, exploiting data from multiple sources. The aim is to develop effective modelling for the generation of sustainable and inclusive mobility scenarios







ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 50 points (a minimum score of 20 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 70 points Minimum score for ELIGIBILITY: 70/120
Foreign Language	Language the fluency of which shall be assessed during the Oral Exam: ENGLISH .	
APPLICANTS ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE (Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)		
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH		
LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT		
MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION		
ANNEX A	(art. 5 of the Competition notice)	
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)	
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)	
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis countersigned by their supervisor.	
Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).	
Research Project and Statement of Research interest	A brief text (max 3 pages) in English. The candidates must describe their research interests and indicate the preferred topic among those listed above, possibly suggesting a second choice theme. For the first choice theme, candidates must outlay an original research project including a concise state of the art, the relevance of the problem and the expected results. Candidates are warmly invited to contact the potential supervisors listed at http://smfi.unipr.it/it It does not represent a constraint with respect to the following choice of the doctoral thesis, that shall be defined together with the supervisor and approved by the Academic Board.	
FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)		
Other qualifications	Any other document certifying the applicant's training and abilities. Publications, awards, presentations to scientific meeting, stages, fellowships, reference letters, etc	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.	Up to 25 points

Graduation thesis	Consistency of the Master' Degree thesis with the doctoral program research topics. The assessment will make use of the information contained in the abstract (max 1 page) of the thesis (although not yet discussed, in this case countersigned by the thesis supervisor) and in the curriculum, where a brief description of the thesis work should be reported.	Up to 5 points
Research Project and Statement of Research Interest	The project will be evaluated in relation to its scientific value and originality. The motivation expressed by the candidate in relation to the themes of the research doctorate will be evaluated	Up to 10 points
Other qualifications	Publications, awards, presentations to scientific meeting, stages, fellowships, reference letters, etc	Up to 10 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course	<ul style="list-style-type: none"> ○ preparation on the issues related to the Master's degree thesis ○ research project presentation ○ general knowledge of issues connected to the PhD course ○ knowledge of the foreign language 	Up to 70 points
SCHEDULE OF THE ADMISSION EXAMS		
ORAL EXAM	DATE	15 September 2022 (with possible extension in the following days)
	TIME	10:00 AM (Italian time) The schedule of oral examinations will appear at http://smfi.unipr.it/it
	PLACE	Department of Mathematical, Physical and Computer Sciences PHYSICS BUILDING Parco Area delle Scienze, 7/A – Campus 43124 PARMA - ITALY
OTHER INFORMATION	<p>The Oral Exam will focus on the description of the research work carried out to prepare the Graduation Thesis for the Laurea Magistrale/Specialistica, as well as on the research project that the candidate proposes to carry out within the research topics of the Research Doctorate Program in Physics at the Department of Mathematical, Physical and Computer Sciences of the University of Parma which are described at http://smfi.unipr.it/it</p> <p>In the application to participate in the competitive examination, the candidate must choose and specify one research topic. The candidate may indicate a second priority choice.</p> <p>For foreign candidates, the admission examinations may be held in English at the candidate's choice.</p>	

CIVIL ENGINEERING AND ARCHITECTURE

CYCLE	XXXVIII
COORDINATOR	Prof. Sandro LONGO email: sandro.longo@unipr.it Department of Engineering and Architecture
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> • Infrastructure and Environmental Engineering • Structural and Geotechnical Engineering • Architecture and Urban Planning 	
TRAINING OBJECTIVES	
<p>To develop specialized skills in the following fields:</p> <ol style="list-style-type: none"> (1) Infrastructure and Environmental Engineering: civil infrastructures for transport; survey, management, and analysis of land data, control and monitoring of displacements and deformations at all scales; issues related to surface waters and groundwater; (2) Structural and Geotechnical Engineering: mechanical behaviour of materials, structural components and structures; behaviour of soils and geotechnical structures; (3) Architecture and Urban Planning: theoretical, formal, distributional and functional aspects in architecture; the problems related to methods for survey and to computer-graphics in architecture; issues related to the implementation and the development of urban settlements; historical, artistic, technical and aesthetic themes in the architecture of the past.) 	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>

POSITIONS PUT OUT TO COMPETITION	16	With Scholarship	13
		Reserved to holders of scholarship within specific international mobility programs	2
		Reserved for employees of companies or public institutes and research centers engaged in highly qualified activities	1
Position with Scholarship			
N°	Funding entity		Research Topic, if any
3	Scholarship funded by University of Parma (Ministerial funds)		---

2	Scholarship funded by University of Parma (University funds)	---
1	Scholarship co-funded by Fondazione Cariparma	---
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)		
During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.		
N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Engineering and Architecture	<ul style="list-style-type: none"> Fracture model of elastomeric multilayers and simulation of failure in tyres
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company SISGEO S.r.l. 	<ul style="list-style-type: none"> Innovative monitoring system for railways
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company ANDRITZ Hydro 	<ul style="list-style-type: none"> Development of a Smoothed Particle Hydrodynamics model for hydraulic turbines simulation
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.4 NATIONAL CENTER for sustainable mobility 	<ul style="list-style-type: none"> Railway Infrastructure Definition of data-driven and model-based methods for monitoring, diagnosis, and predictive maintenance of rail infrastructure, with a focus on subballast-ballast-rail systems and related joints. Sustainable solutions and decision support for civil infrastructure analysis and management
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.4 NATIONAL CENTER for sustainable mobility 	<ul style="list-style-type: none"> Planning Cities of Proximity: urban retrofit planning scenarios for accessible and inclusive public spaces
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.5 Ecosystem for sustainable Transition in Emilia-Romagna 	<ul style="list-style-type: none"> New architectural typologies of public service in the social-health sector in the definition of peripheral urban centralities
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.5 Ecosystem for sustainable Transition in Emilia-Romagna 	<ul style="list-style-type: none"> Performance-based planning of pedestrian and bicycle networks to improve spatial and urban accessibility

Reserved to HOLDERS OF SCHOLARSHIP WITHIN SPECIFIC INTERNATIONAL MOBILITY PROGRAMS	
N°	<i>Agreements/Cooperations/Mobility Programs</i>
2	Reserved to holders of scholarship under the mobility program or other forms of financial support under the EU Project H2020 - MSCA ITN "Innovative Training Networks" CIRPAV 101072820
Position reserved for EMPLOYEES of companies or public institutes and research centers engaged in highly qualified activities	
N°	<i>Company/Institution</i>
1	Reserved to employees of company Autovie Venete S.p.A.

ADMISSION PROCEDURES	<p>Assessment of QUALIFICATIONS: up to 70 points (a minimum score of 40 points shall be required to be admitted to the Oral Exam)</p> <p>ORAL EXAM: up to 50 points</p> <p>Minimum score for ELIGIBILITY: 70/120</p>
ADMISSION PROCEDURES for positions reserved to scholarship holders within specific international mobility programs	<p>Assessment of QUALIFICATIONS: up to 120 points</p> <p>Minimum score for ELIGIBILITY: 70/120</p>
Foreign Language	<p>The language for which the fluency must be assessed during the Oral Examination: ENGLISH.</p> <p>The assessment of knowledge of this language will be oral and will consist in reading and translating a scientific text.</p>
<p align="center">APPLICANTS ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE</p> <p align="center">(Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)</p>	
<p>THE INTERVIEW MAY BE HELD ALSO IN ENGLISH</p>	
<p align="center">LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT</p>	
<p align="center">MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION</p>	
ANNEX A	(art. 5 of the Competition notice)
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)
Qualifications	<p>Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).</p>
Statement of Research interest	Short text – maximum 2 pages – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests

FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)		
Reference Letters	A maximum of 2 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities. The reference letters must be sent directly by the signer to the address e-mail: andrea.maranzoni@unipr.it Reference letters sent directly by the candidate or received in any other way will not be evaluated.	
Research Project	The research project shall consist of a maximum of 3 pages, be written in Italian or in English, and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results. The project must focus on an original research topic (unpublished, personally developed by the candidate). It should be noted that the Examination Board can use of IT tools useful for verifying the originality of the submitted Project. <u>It does not represent a constraint with respect to the following choice of the doctoral thesis</u> , that shall be defined together with the supervisor and approved by the Academic Board.	
Scientific Publications	Articles on national and international journals, papers presented at conferences or symposia, book chapters etc.	
EVALUATION CRITERIA		
QUALIFICATION	EVALUATION CRITERIA	POINTS
Curriculum Vitae et studiorum	Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark. Mandatory: Statement of Research Interest Not mandatory: Reference Letters	Up to 30 points
Graduation mark	---	Up to 5 points
Average of the exam marks (if the candidate will attain the degree no later than 24 October 2022)	---	Up to 5 points
Graduation thesis	Consistency of the Master's Degree thesis with the doctoral program research topics (briefly describe the topics in the curriculum vitae by attaching the abstract of the degree thesis or draft of the thesis approved by the supervisor)	Up to 6 points
Research Project	---	Up to 25 points
Scientific publications	Maximum 2	Up to 4 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intended to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course	<ul style="list-style-type: none"> ○ knowledge of the foreign language ○ research project presentation ○ general knowledge of issues connected to the PhD course 	Up to 50 points
LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT Positions reserved to holders of scholarship within specific international mobility programs		

Curriculum Vitae et studiorum	Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark. Mandatory: Statement of Research Interest Not mandatory: Reference Letters	Up to 52 points
Graduation mark	---	Up to 8 points
Average of the exam marks (if the candidate will attain the degree no later than 24 October 2022)	---	Up to 8 points
Graduation thesis	Consistency of the Master's Degree thesis with the doctoral program research topics (briefly describe the topics in the curriculum vitae by attaching the abstract of the degree thesis or draft of the thesis approved by the supervisor)	Up to 10 points
Research Project	---	Up to 44 points
Scientific publications	Maximum 2	Up to 6 points
SCHEDULE OF THE ADMISSION EXAMS		
ORAL EXAM	DATE	19 September 2022 (with possible extension to the afternoon)
	TIME	09:30 AM (Italian time)
	PLACE	Department of Engineering and Architecture MEETING ROMM – Building 10 Parco Area delle Scienze, 181/A – Campus 43124 PARMA - ITALY
OTHER INFORMATION	<p>The Oral Exam must be taken in Italian or in English. If the candidate wishes to take the oral exam in English he/she must attach a formal request to the application form (Form ANNEX A).</p> <p>In the application for participation in the competitive examination, the Applicant must choose and specify only ONE Thematics (between the 3 possible Thematics), and the Applicant must take the oral exam on the chosen Thematics. During the Oral Exam the candidate must indicate the theme of research of his/her interest among those listed in https://dia.unipr.it/en/themes_38_Cycle</p> <p>In the case of admission to the PhD programme, the above choice will be binding for the research activity of the winner.</p> <p>For Applicants who will take the Oral Exam in Italian, knowledge of English will be assessed orally and the test will consist of reading and translating a scientific text.</p> <p>Foreign Applicants, if they are among the winners of the PhD admission competition, are strongly encouraged to attend an Italian language course (http://www.lass.unipr.it/en/teaching/italian-courses-foreigners). The Faculty Board will recognize the credits based on the level of knowledge acquired.</p>	







INDUSTRIAL ENGINEERING






CYCLE	XXXVIII
COORDINATOR	Prof. Gianni ROYER CARFAGNI email: gianni.royer@unipr.it Department of Engineering and Architecture
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> • Theoretical and applied mechanics, mechanics of materials and structures, material technology, machine design, measurements and diagnostics; • Economic, organizational, managerial, logistics, plants and legal aspects in the field of engineering; • Energy systems, thermo-fluid dynamics, fluid machinery, applied physics. 	
TRAINING OBJECTIVES	
<p>The Industrial Engineering PhD program aims at giving to the participants a deep knowledge in the main topics relevant to industrial engineering. The PhD course presents numerical, analytical and experimental techniques, in order to face any technical or scientific problem of the industrial engineering, with managerial skills, to provide autonomy in work and readiness of inclusion in a collaborative environment with other researchers and technicians. The internationalization phase, envisaged in the three-year curriculum, allows to forge links with other foreign realities by providing to the graduate student an additional tool to get into a scientific context, not just limited by national borders.</p>	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>

POSITIONS PUT OUT TO COMPETITION	20	With Scholarship	17
		Reserved to holders of Research Grant	2
		Reserved for employees of companies or public institutes and research centers engaged in highly qualified activities	1
Position with Scholarship			
N°	Funding entity		Research Topic, if any
3	Scholarship funded by University of Parma (Ministerial funds)		---
1	Scholarship funded by University of Parma (University funds)		---
1	Scholarship co-funded by Fondazione Cariparma		---

Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Engineering and Architecture	<ul style="list-style-type: none"> Optimisation of logistics and supply chain processes using simulation models and advanced performance evaluation systems (such as lean, agile, resilient & green - LARG)
1	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 6 “Digital and environmental transitions”) 	<ul style="list-style-type: none"> The enhancement of by-products from matrices of plant origin in the food industry: qualification, food safety legislation and its applicability, patentability profiles
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Maselli Misure S.p.A. 	<ul style="list-style-type: none"> Lean production methodologies for improving production efficiency, liquidity and responsiveness to market demands
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company KOSME S.r.l. 	<ul style="list-style-type: none"> Re-design of “end-of-line packaging machinery” with the implementation of Structural Optimization, Design for Manufacturing and Design for Assembly concepts, in order to enhance the machine sustainability and competitiveness
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company PLM4U S.r.l. 	<ul style="list-style-type: none"> Life Cycle Engineering and product design for Disassembly
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company FMB-Engine S.r.l. 	<ul style="list-style-type: none"> Advanced simulation or artificial intelligence techniques for both design and management of industrial plants and their major components
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company DexMat Inc. 	<ul style="list-style-type: none"> DexMat Inc., Located in Houston, TX, USA, manufactures high performance products made from Carbon Nanotubes (CNTs). The supported student shall develop theoretical and experimental activities on solution spun CNT fibers with different nano-structural compositions, organized in strands, ropes and cables, for which the

		capacity in terms of strength, stiffness, robustness and resilience will be verified and compared with the theoretical predictions.
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Kuraray Europe GmbH 	<ul style="list-style-type: none"> Kuraray Europe GmbH, located in Germany, is a wholly owned subsidiary company of the Japanese Kuraray group, the leading supplier of specialized products such as polymeric foils for laminated glass. The supported student shall develop advanced models, corroborated by experimental activities, for the viscoelastic characterization of polymeric films, to be applied in structural models for beams, plates and shells made of laminated glass.
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.4 National Center for sustainable mobility 	<ul style="list-style-type: none"> Rail joints and related monitoring and diagnostic systems for predictive track maintenance.
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.4 National Center for Agricultural Technologies AGRITECH 	<ul style="list-style-type: none"> Design, implementation and management of the "living lab"
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.5 Ecosystem for sustainable Transition in Emilia-Romagna 	<ul style="list-style-type: none"> Design of supply chains through data-driven systemic design approach and performance evaluation in prototyping smart design solutions for circular economy
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.5 Ecosystem for sustainable Transition in Emilia-Romagna 	<ul style="list-style-type: none"> Advanced measurements and analysis techniques for condition monitoring of complex systems
Position reserved to HOLDERS OF RESEARCH GRANT		
N°	Subject area of the research	
1	ING-IND/10 – Thermal engineering and industrial energy systems <ul style="list-style-type: none"> Study, development and characterisation of high-performance heat exchange devices with a view to energy saving 	
1	ING-IND/17 – Industrial Mechanical Systems Engineering <ul style="list-style-type: none"> Environmental Impact Analysis of industrial systems using LCA methodology, with a main focus on the agri-food and food packaging sector, in order to find solutions with a low global impact in line with the principles and timelines dictated by the European Union 	
Position reserved for EMPLOYEES of companies or public institutes and research centers engaged in highly qualified activities		
N°	Company/Institution	
1	Reserved to employees of SUPSI – Scuola Universitaria della Svizzera Italiana	

ADMISSION PROCEDURES	Assessment of QUALIFICATIONS: up to 70 points (a minimum score of 40 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 50 points Minimum score for ELIGIBILITY: 70/120
Foreign Language	Lingua di cui verrà accertata la conoscenza in sede di Prova Orale: INGLESE . La verifica della conoscenza di tale lingua avverrà in forma scritta/orale e consisterà nella lettura e traduzione di un testo scientifico.
CANDIDATES ADMITTED TO THE ORAL TEST CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE (The Oral Exam takes place <u>in presence</u> . Candidates who intend to take the Oral Exam remotely must submit a motivated REQUEST , to this purpose, as per the model attached to the competition notice)	
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH	
LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT	
MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION	
ANNEX A	(art. 5 of the Competition notice)
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)
Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).
Research Project	Written in Italian or in English, according to the format attached to the competition notice, it will have to focus on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use of IT tools useful for verifying the originality of the submitted Project). To identify the topic of the aforementioned project, the candidate may contact one of the Members of the Academic Board (available at: https://dia.unipr.it/it/node/2834). <u>It does not represent a constraint with respect to the following choice of the doctoral thesis, which will be assigned by the Academic Board.</u>
FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)	
Statement of Research interest	Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests
Scientific Publications	Articles on national and international journals, contributions presented at conferences or symposia, book chapters. It is necessary to attach a copy to online application

Reference Letters	A maximum of 2 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities (to be attached to the online application)	
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program	
Other experiences (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> - Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covered by research grant, and as a staff member of research units - Working activity - Professional and/or training internship - Language proficiency certificates - Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes) - Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) 	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark, both of the bachelor's and master's degrees.	Up to 15 points
Graduation mark	Score related to the final mark: <ul style="list-style-type: none"> - 110 with honours (magna cum laude): 10 points; - 110: 8 points; - From 105 to 109: up to 6 points; - From 100 to 104: up to 3 points; - From 66 to 99: 0 points - The scores will be proportionally renormalized in case of equivalent evaluations 	Up to 10 points
Average of the exam marks (if the candidate will attain the degree no later than 24 October 2022)	Score related to the average of the exam marks: <ul style="list-style-type: none"> - 30/30: 10 points; - From 28/30 to 29/30: up to 5 points; - From 26/30 to 27/30: up to 3 points; - From 18/30 to 25/30: 0 points; The scores will be proportionally renormalized in case of equivalent evaluations	Up to 10 points
Graduation thesis	Consistency of the Master's Degree thesis with the doctoral program research topics	Up to 10 points
Research Project	Consistency of the Research Project with the doctoral program research topics	Up to 15 points
Statement of Research Interest	Evaluation of the candidate's motivations to attend the doctoral course and congruity of the research interests with the research topics of the doctoral course.	Up to 5 points
Scientific publications	Articles on national and international journals, contributions presented at conferences or symposia, book chapters. It is necessary to attach a copy to online application	Up to 5 points
Reference Letters	a maximum of 2 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities	Up to 5 points
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program	Up to 2 points

Other experiences	<ul style="list-style-type: none"> – Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covered by research grant, and as a staff member of research units – Working activity – Professional and/or training internship – Language proficiency certificates – Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes) – Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) 	Up to 3 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intended to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course	<ul style="list-style-type: none"> ○ research project presentation ○ general knowledge of issues connected to the PhD course ○ knowledge of foreign languages 	Up to 50 points
SCHEDULE OF THE ADMISSION EXAMS		
ORAL EXAM	DATE	13 September 2022 (with possible extension in the following days)
	TIME	09:00 AM (Italian Time)
	PLACE	Meeting Room – Building 10 Department of Engineering and Architecture Parco Area delle Scienze, 181/A - Campus 43124 PARMA - ITALY
OTHER INFORMATION	For foreign candidates, the admission examinations may be held in English at the candidate's choice.	

MOLECULAR MEDICINE	
CYCLE	XXXVIII
COORDINATOR	Prof. Prisco MIRANDOLA email: prisco.mirandola@unipr.it Department of Medicine and Surgery
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> • Role of molecular chaperones in the onset and progression of protein misfolding diseases • Metabolic alterations of hematological neoplasms and remodeling of the bone marrow niche • Evaluation of the inflammatory state by in vitro studies: molecular and clinical aspects • Physical activity and well-being • Set up and validation of novel models of Chronic obstructive pulmonary diseases • Design and synthesis of biological drugs directed against tumors and viral agents • Genetics of sudden cardiac death 	
TRAINING OBJECTIVES	
The Research Doctorate Course in Molecular Medicine aims to provide PhD students with the cultural and methodological skills necessary to carry out high-profile research in different scientific disciplines in the biomedical field, integrated in an interdisciplinary perspective. The acquired training will allow PhDs in Molecular Medicine to employ themselves in high level research and development activities in Universities, research centers and industries engaged in the medical, biological and biotechnological sectors.)	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>

POSITIONS PUT OUT TO COMPETITION		7	With Scholarship	7
Position with Scholarship				
N°	<i>Funding entity</i>	<i>Research Topic, if any</i>		
3	Scholarship funded by University of Parma (Ministerial funds)	<ul style="list-style-type: none"> • Role of molecular chaperones in the onset and progression of protein misfolding diseases • Metabolic alterations of hematological neoplasms and remodeling of the bone marrow niche • Evaluation of the inflammatory state by in vitro studies: molecular and clinical aspects • Physical activity and well-being 		
1	Scholarship co-funded by Fondazione Cariparma			

Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Medicine and Surgery (co-financed by Project PRIN 2020, 2017LW7XWH: Early Phase Preclinical Development of PACECOR, a Mutation-Independent Anti-SARS-Co2 Therapeutic Strategy" - CUP D55F20002710001)	<ul style="list-style-type: none"> • Set up and validation of novel models of Chronic obstructive pulmonary diseases
1	Scholarship funded by Chiesi Farmaceutici S.p.A.	<ul style="list-style-type: none"> • Design and synthesis of biological drugs directed against tumors and viral agents
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Abbott S.r.l.	<ul style="list-style-type: none"> • Genetics of sudden cardiac death

ADMISSION PROCEDURES	<p>Assessment of QUALIFICATIONS: up to 60 points (a minimum score of 10 points shall be required to be admitted to the Oral Exam)</p> <p>ORAL EXAM: up to 60 points</p> <p>Minimum score for ELIGIBILITY: 70/120</p>
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Foreign Language	<p>Language the fluency of which shall be assessed during the Oral Exam: ENGLISH.</p> <p>The evaluation of the knowledge of this language will be by an oral examination and will consist in translating of a scientific text.</p>
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**CANDIDATES ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE
OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE**

(Candidates who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)

THE INTERVIEW MAY BE HELD ALSO IN ENGLISH

LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT

MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION	
ANNEX A	(art. 5 of the Competition notice)
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)

Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).	
Research Project	Written in Italian or in English, according to the format attached to the competition notice, it will have to focus on an original research topic (unpublished, developed personally by the candidate). <u>It does not represent a constraint with respect to the following choice of the doctoral thesis, which will be assigned by the Academic Board.</u>	
FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)		
Statement of Research interest	Short text – maximum 2 pages – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests	
Scientific Publications	Articles on national and international journals, papers presented at conferences or symposia, book chapters etc.	
Reference Letters	A maximum of 3 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities, to be attached to the online application.	
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program	
Other experiences (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> – Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covered by research grant, and as a staff member of research units – Working activity – Professional and/or training internship – Language proficiency certificates – Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes) – Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) 	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.	Up to 10 points
Graduation mark	Score related to the final mark: - 110 with honours (magna cum laude): 5 points; - 110: 3 points; - From 100 to 109: 0,2 point for each mark unit	Up to 5 points
Average of the exam marks (if the candidate will attain the degree no later than 24 October 2022)	Score related to the average of the exam marks: - > 28/30: 5 points - > 27/30: 3 points - > 25/30: 1 point	Up to 5 points

Graduation thesis	Consistency with the research themes of the PhD course and quality of the research methodology	Up to 7 points
Research Project	Points relating to the research project: <ul style="list-style-type: none"> ○ Scientific value and originality of the proposal: max 2.5 points ○ articulation of the proposal: max 2.5 points ○ proposal feasibility: max 2.5 points ○ consistency with the research themes of the PhD course: max 2.5 points 	Up to 10 points
Statement of Research Interest	Clarity, maturity, motivation and expectations	Up to 9 points
Scientific publications	Evaluation of the candidate's contribution and the editorial location of the product.	Up to 9 points
Reference Letters	one point per letter	Up to 3 points
Other Academic qualifications	Academic qualifications/experience abroad/grants, scholarships and awards	Up to 5 points
Other experiences		Up to 2 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course	<ul style="list-style-type: none"> ○ knowledge of the foreign language: max 4 points ○ ability to argument the project proposal: max 28 points ○ knowledge of chosen topic: max 28 points 	Up to 60 points
SCHEDULE OF THE ADMISSION EXAMS		
ORAL EXAM	DATE	20 September 2022 (with possible extension in the following days)
	TIME	10:00 AM (Italian Time)
	PLACE	Department of Medicine and Surgery Integrated Biotechnological Plexus Via Volturno, 39 – 43125 PARMA - ITALY
OTHER INFORMATION	The Oral Exam is held in Italian. For foreign candidates, the admission examinations may be held also in English at the candidate's choice.	
















NEUROSCIENCES

CYCLE	XXXVIII
COORDINATOR	Prof. Luca BONINI email: luca.bonini@unipr.it Department of Medicine and Surgery
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
CURRICULA	1. Neurosciences 2. Behavioural Biology
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> • Integrated neuroscience: comparative neurophysiology and neuroethology, cognitive and social neuroscience, cognitive psychology, psychology of perception and action, psychobiology, psychophysiology. • Behavioral biology: biological basis of social, competitive and parental behavior, gene/environment interactions on the development of behavior, cognitive ethology and emotions in animals and humans 	
TRAINING OBJECTIVES	
<ul style="list-style-type: none"> • Provide a global and interdisciplinary vision of the proposed research sectors, guaranteeing a high degree of specialization in research in these areas; • Acquire skills and abilities in the autonomous use of at least one neuroscientific investigation technique; • Promote the development of networks of national and international relations and exchanges aimed at sharing and deepening the research topic addressed. 	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>

POSITIONS PUT OUT TO COMPETITION	14	With Scholarship	12
		Reserved for employees of companies or public institutes and research centers engaged in highly qualified activities	2
Position with Scholarship			
N°	Funding entity	Research Topic, if any	
2	Scholarship funded by University of Parma (Ministerial funds)	---	
1	Scholarship funded by University of Parma (University funds)	---	
1	Scholarship co-funded by Fondazione Cariparma	---	

Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Medicine and Surgery (Project ERC CoG "EMACTIVE")  European Research Council Established by the European Commission	<ul style="list-style-type: none"> • Telemetric monitoring of autonomic parameters in freely moving macaques during neural recordings
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Medicine and Surgery (Project ERC CoG "EMACTIVE")  European Research Council Established by the European Commission	<ul style="list-style-type: none"> • Implementation of techniques for optogenetic and chemogenetic manipulation of neural activity in the macaque
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Medicine and Surgery (Project ERC CoG "EMACTIVE")  European Research Council Established by the European Commission	<ul style="list-style-type: none"> • Neuroethology of non-human primate motor and social behavior
1	Scholarship funded by Neurexplora S.r.l.	<ul style="list-style-type: none"> • Artificial Intelligence Applied to Neuromarketing
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Lombardini22  Finanziato dall'Unione europea NextGenerationEU  Ministero dell'Università e della Ricerca 	<ul style="list-style-type: none"> • Interaction between motor system and architecture in action and emotion perception
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Toyota Motor Europe SV.SA  Finanziato dall'Unione europea NextGenerationEU  Ministero dell'Università e della Ricerca 	<ul style="list-style-type: none"> • Emotional state classification via kinematic, neurovegetative and electrophysiological monitoring in ecological contexts
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company HENESIS S.r.l.  Finanziato dall'Unione europea NextGenerationEU  Ministero dell'Università e della Ricerca 	<ul style="list-style-type: none"> • Electrophysiological correlates and predictors of motor learning via action observation
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Ernst & Young Business School S.r.l.  Finanziato dall'Unione europea NextGenerationEU  Ministero dell'Università e della Ricerca 	<ul style="list-style-type: none"> • The multifaceted interplay between environment and multisensory integration. The research project concerns the study of the influence of environmental factors on the plasticity of multisensory integration processes. The grant will support the execution of both behavioural studies using virtual environments and functional neuroimaging studies.

Position reserved for EMPLOYEES of companies or public institutes and research centers engaged in highly qualified activities	
N°	Company/Institution
1	Reserved to employees of A.S.S.T. Grande Ospedale Metropolitano Niguarda
1	Reserved to employees of HENESIS S.r.l.

ADMISSION PROCEDURES	<p>Assessment of QUALIFICATIONS: up to 40 points (a minimum score of 20 points must be obtained to be admitted to the Oral Exam)</p> <p>ORAL EXAM: up to 80 points</p> <p>Minimum score for ELIGIBILITY: 70/120</p>
Foreign Language	<p>During the Oral Exam it will be verified the proficiency in the following language: ENGLISH. The evaluation of this language will be oral and will consist in the discussion of the research project presented in English.</p>
<p>APPLICANTS ADMITTED TO THE ORAL EXAM WILL TAKE THE EXAM IN PRESENCE*</p> <p>*The Oral Exam can be taken in remote mode with audio and video connection only for candidates residing abroad or temporarily abroad for study / work reasons who submit a motivated request as per the model attached to the competition announcement.</p> <p>It is also possible to ask for the remote examination for those in isolation/quarantine for COVID-19 virus infection, at the moment of the exam, by submitting a motivated REQUEST as per the model attached to the competition announcement)</p>	
<p>THE INTERVIEW MAY BE HELD ALSO IN ENGLISH</p>	
<p>LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT</p>	
<p>MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION</p>	
ANNEX A	(art. 5 of the Competition notice)
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree thesis	Abstract of the second cycle master's degree thesis and the full thesis in pdf format. Undergraduate applicants must submit the draft of the thesis approved by their supervisor.
Academic qualifications	<p>Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).</p>
Research Project	<p>Written in English, 3 pages with single spacing in Times New Roman 12, including bibliography, it must focusing on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use of IT tools useful for verifying the originality of the submitted Project) and it shall be structured as follows: introduction of the problem in the scientific context, relevance of the problem, objectives, expected results.</p> <p><u>It does not represent a constraint with respect to the following choice of the doctoral thesis, which will be assigned by the Academic Board.</u></p>

FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)		
Statement of Research interest	Short text – maximum 1 page – in English, aimed at explaining the candidate's motivation to attend the PhD program and at describing her/his specific research interests	
Scientific Publications	Articles on national and international journals with peer reviewing, abstracts of papers presented at conferences or symposia, book chapters etc.	
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program	
Other experiences (training, work, research, teaching, etc.) related to the topic of PhD course	<ul style="list-style-type: none"> – Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covered by research grant, and as a staff member of research units – Working activity – Professional and/or training internship – Language proficiency certificates – Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes) – Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) 	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.	Up to 40 points
Curriculum Vitae et Studiorum will be evaluated based on the following qualifications and scores:		
Graduation mark	Score related to the final mark: - 110 with honours (magna cum laude): 10 points; - 110: 7 points - From 108 to 109: 5 points - From 106 to 107: 3 points - 105-106: 1 point - Under 105: 0 points	Up to 10 points
Average of the exam marks (if the candidate will attain the degree no later than 24 October 2022)	Score related to the average of the exam marks: - From 29/30 to 30/30: 10 points - From 28/30 to 28.99/30: 7 points - From 27/30 to 27.99/30: 5 points - From 26/30 to 26.99/30: 3 points - Under 26/30: 0 points	Up to 10 points
Graduation thesis	Congruence with the research topics of the PhD course and methodological quality of the experimental or bibliographic work. ○ Experimental thesis related to the PhD program of Neuroscience: 10 points ○ Non-experimental and relevant thesis: 5 points ○ Thesis not relevant: 0 points	Up to 10 points
Research Project	Project evaluation score: ○ scientific value: 2.5 points ○ structure of the proposal: 2.5 points ○ proposal feasibility in relation to the specific research topics of the PhD course: 2.5 points ○ originality of the proposal: 2.5 points	Up to 10 points

Statement of Research Interest	Short text – maximum 1 page – in Italian or in English	Up to 2 points
Scientific publications	<ul style="list-style-type: none"> ○ Each article in a peer-reviewed international journal: 1 point ○ Each book chapter: 0.4 points ○ abstracts/papers/posters presented at conferences or symposia: 0.3 points <p>The same categories are half valued if in Italian. The points of the publications are normalized for post-graduate years, that is, divided by the numbers of post-graduate years.</p>	Up to 5 points
Other Academic qualifications	Other academic qualifications consistent with the research topics of this PhD program	Up to 3 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
<p>The ORAL examination includes:</p> <p>A1) Neurosciences: the oral report on 2 topics chosen by lot from those indicated in the list below:</p> <ol style="list-style-type: none"> 1) The origin of the nervous impulses 2) The synapses 3) The reflexes 4) Molecular and cellular bases of signal transduction 5) The motor system 6) The visual system 7) The somatosensory system 8) The autonomic nervous system 9) Neurobiology of language 10) Neurobiology of attention 11) Neurobiology of emotions 12) Memory and learning <p>A2) Behavioural Biology: the oral report on 2 topics chosen by lot from those indicated in the list below:</p> <ol style="list-style-type: none"> 1) Individual and social learning 2) Imprinting and development of behavior 3) Genetic and epigenetic of behavior 4) Parental effort and sexual selection 5) Social behavior, reproductive systems and parental care 6) Aggression, assault and social hierarchies 7) Hormones, neurotransmitters and behavior 	<ul style="list-style-type: none"> ○ Up to 40 points for the oral report on the two topics extracted (up to 20 points per topic) ○ Up to 20 points for the project presentation ○ Up to 20 points for knowledge of the foreign language 	Up to 80 points

8) Parental selection and altruism 9) Behavioral evolution 10) Communication and emotions emozioni B) The presentation and discussion of the research project , aimed at verifying the candidate's aptitude for scientific research. The discussion will take in English to evaluate the knowledge and the fluency of the language		
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SCHEDULE OF THE ADMISSION EXAMS

ORAL EXAM	DATE	15 September 2022
	TIME	09:00 AM (Italian Time)
	PLACE	Department of Medicine and Surgery Neuroscience Unit - Building E - 1 st Floor Via Voltorno, 39 - 43125 PARMA - ITALY
OTHER INFORMATION		For foreign candidates, the admission examinations may be held in English at the candidate's choice.

PSYCHOLOGY

CYCLE	XXXVIII
COORDINATOR	Prof.ssa Luisa MOLINARI email: luisa.molinari@unipr.it Department of Humanities, Social Sciences and Cultural Industries
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> • Psychosocial processes in complex societies • Developmental and learning processes • Clinical processes in life contexts 	
TRAINING OBJECTIVES	
Train researchers able to plan and implement research in social, educational and clinical contexts.	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by October 24st 2022.</p>

POSITION PUT OUT TO COMPETITION	4	With Scholarship	4
Position with Scholarship			
N°	Funding entity	Research Topic, if any	
1	Scholarship funded by University of Parma (Ministerial funds)	---	
1	Scholarship co-funded by Fondazione Cariparma	---	
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)			
During the Oral Exam, applicants may express and / or confirm their interest to the Examination Board in being assigned a scholarship dedicated to a specific research topic.. The Board will express its judgement on eligibility to be assigned the scholarship in consideration of the specific competences, experience and specific aptitudes of the applicants.			
N°	Funding entity	BOUND RESEARCH TOPIC	
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Humanities, Social Sciences and Cultural Industries	<ul style="list-style-type: none"> • The transition from preschool to primary school: Prerequisites for learning and adjustment in the class 	










ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 60 points (a minimum score of 35 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 60 points Minimum score for ELIGIBILITY: 70/120
Foreign Language	Language the fluency of which shall be assessed during the Oral Exam: ENGLISH . The evaluation of the knowledge of this language will be oral and will consist in reading and translating of a scientific text.	
CANDIDATES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE (Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)		
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH		
LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT		
MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION		
ANNEX A	(art. 5 of the Competition notice)	
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)	
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)	
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)	
Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).	
Research Project	The research project shall consist of a maximum of 2500 words, be written in Italian or in English, and it must be an original research project (inedited, unpublished, personally developed by the candidate) and be structured as follows: theoretical introduction, relevance of the problem, research design and methodology, expected results and discussion, essential bibliography (maximum 5 bibliographic entries) The Research Project <u>does not represent a constraint with respect to the following choice of the doctoral thesis</u> , that shall be defined together with the supervisor and approved by the Academic Board.	
FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)		
Scientific Publications	Articles on national and international journals, reports presented at conferences or symposia, book chapters etc.	
Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program	
Other experiences	study or research experiences abroad, prizes, scholarships and research grants (will be taken into consideration only if clearly documented).	
EVALUATION CRITERIA		


QUALIFICATION	EVALUTATION CRITERIA	POINTS
Graduation mark Or Average of the exam marks (if the candidate will attain the degree no later than 24 October 2022)	Score related to the final mark: - 110 and 110 with honours (magna cum laude): 10 points; - From 100 to 109: 8 points - Under 99: 5 points Score related to the average of the exam marks: - 30/30: 10 points - From 27/30 to 29/30: 8 points; - Under 26/30: 5 points	Up to 10 points
Abstract of the Graduation thesis	Consistency with the research themes of the PhD course and quality of the research methodology	Up to 5 points
Research Project	<ul style="list-style-type: none"> ○ Scientific value and internal consistency: 20 points (aspects that will be considered: validity of the theoretical formulation, relevance of the problem faced, clarity of the objectives and appropriateness of the methodology, consistency of the expected results and relative discussion) ○ Formal and grammatical aspects: 4 points ○ Congruence with the research themes of the PhD course: 4 points 	Up to 28 points
The candidate's Curriculum Vitae et Studiorum will be evaluated based on the following qualifications and scores:		
Scientific publications	Articles on national and international journals, papers presented at conferences or symposia, book chapters etc	Up to 10 points
Academic qualifications	First or second level master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD programme	Up to 5 points
Other experiences	study or research experiences abroad, prizes, scholarships and research grants (documented)	Up to 2 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM focuses on the knowledge of the English language, on the discussion of the research project, on the knowledge related to the research themes of the PhD programme	<ul style="list-style-type: none"> ○ knowledge of foreign languages (English): 10 points ○ discussion and argumentation of the project: 35 points ○ knowledge on at least one of the themes of the PhD programme: 15 points 	Up to 60 points
SCHEDULE OF THE ADMISSION EXAMS		
PROVA ORALE	DATA	15 September 2022
	ORA	09:30 AM (Italian Time)
	LUOGO	ROOM A POLO DIDATTICO Via del Prato – 43121 PARMA - ITALY
OTHER INFORMATION	For foreign candidates, the admission examinations may be held in English.	

MATERIALS SCIENCE AND TECHNOLOGY

CYCLE	XXXVIII
COORDINATOR	Prof. Enrico DALCANALE email: enrico.dalcanale@unipr.it Department of Chemistry, Life Sciences and Environmental Sustainability
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
PARTNER INSTITUTION	The Italian National Research Council (C.N.R.)
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A)	
<ul style="list-style-type: none"> • Photovoltaic devices • Functional materials • Nanodiagnosics • Nanostructured materials • Supramolecular sensors and devices • Semiconductive massive crystals • Low dimensionality semiconductive structures • Self-healing and self-diagnostic polymers • Ceramic and composite materials • Magnetic materials and magneto-refrigeration 	
TRAINING OBJECTIVES	
<p>The PhD program in Materials Science aims at the preparation of PhDs equipped with strong scientific background and wide research experience in materials science. Enrollment is open to MS laureates in Materials Science, Chemistry, Physics, Industrial Chemistry, Engineering and Biological Sciences. The Board provides a wide range of courses and seminars in different scientific areas, with particular focus on all aspects of materials science (synthesis, characterization, functions and devices). It also offers soft skills courses. The PhD program offers an interdisciplinary preparation through research activity, also in collaboration with foreign Institutions.</p>	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>

POSITIONS PUT OUT TO COMPETITION	20	With Scholarship	20
Position with Scholarship			
N°	Funding entity	Research Topic	
2	Scholarship funded by University of Parma (Ministerial funds)	<ul style="list-style-type: none"> • Design of programmable systems based on synthetic DNA as functional material for the development of nanodevices for precision biomedical applications. 	

		<ul style="list-style-type: none"> Low loss and low cost hybrid type heterojunctions for power electronics: synthesis of new materials and devices.
2	Scholarship funded by The Italian National Research Council C.N.R. - ISTEC	<ul style="list-style-type: none"> <i>Circular economy in the ceramic tile production: resource efficiency and waste valorization.</i> Developments of innovative materials for carbon dioxide and nitrogen oxides conversion into valuable products by photo-electrochemical cells.
1	Scholarship funded by The Italian National Research Council C.N.R. - IMEM	<ul style="list-style-type: none"> CVD/printing growth of 2D dichalcogenides for nanoelectronic devices
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)		
<p>During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.</p>		
N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship partly financed with UNIVERSITY funds and co-financed by The Italian National Research Council C.N.R. - IMEM	<ul style="list-style-type: none"> Development of a new type of permanent magnet with low rare earth content obtained from the recovery of recycled magnets.
2	Scholarship partly financed with UNIVERSITY funds and co-financed by The Italian National Research Council C.N.R. - ISTEC	<ul style="list-style-type: none"> Development of innovative materials and components for proton conduction solid oxide cells also operating in reversible mode (RSOC) Safe-and-Sustainable-by-Design applied to nano-production. Engineering of nano-phases and products for environmental protection. Evaluation of performance, safety and sustainability attributes through their life cycle to identify the best design options.
1	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 7 “PNRR Research”) <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">  <div style="text-align: center;"> <p>Finanziato dall'Unione europea NextGenerationEU</p> </div>  <div style="text-align: center;"> <p>Ministero dell'Università e della Ricerca</p> </div>  </div>	<ul style="list-style-type: none"> Innovative magnetic materials for the recovery of waste heat at low temperatures through the technology of thermomagnetic energy generation, to improve efficiency and sustainability of production processes.
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company EPTAINKS S.p.A. <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">  <div style="text-align: center;"> <p>Finanziato dall'Unione europea NextGenerationEU</p> </div>  <div style="text-align: center;"> <p>Ministero dell'Università e della Ricerca</p> </div>  </div>	<ul style="list-style-type: none"> New formulations of sustainable magnetic inks with multifunctional properties.
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Dallara S.p.A. <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">  <div style="text-align: center;"> <p>Finanziato dall'Unione europea NextGenerationEU</p> </div>  <div style="text-align: center;"> <p>Ministero dell'Università e della Ricerca</p> </div>  </div>	<ul style="list-style-type: none"> New reprocessable epoxy resin-carbon fiber (CFRP) composites based on phenoxy resin vitrimers. Replacement of bisphenol A with bio-based building blocks in CFRPs


1	<p>Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Vetriceramics S.r.l.</p> 	<ul style="list-style-type: none"> • New whitening materials for engobes and ceramic bodies: design, synthesis and characterization of reactive components to increase the whiteness of ceramic products.
1	<p>Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Curti - Costruzioni Meccaniche S.r.l.</p> 	<ul style="list-style-type: none"> • Green refractory ceramic matrix composites reinforced with recycled carbon fibers as a secondary raw material in the circular economy.
1	<p>Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Lamberti S.p.A.</p> 	<ul style="list-style-type: none"> • Innovative ceramic materials based on calcium phosphate for applications in the environmental field.
1	<p>Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Industrie Bitossi S.p.A.</p> 	<ul style="list-style-type: none"> • in ambienti severi. • High efficiency sintering of SiC, B4C and similar non-oxidic ceramics for applications in harsh environments.
1	<p>Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Kemin Cavriago S.r.l.</p> 	<ul style="list-style-type: none"> • Innovative sensors for non-destructive and on-line food control systems.
1	<p>Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company due2lab S.r.l.</p> 	<ul style="list-style-type: none"> • AI algorithms for the interpretation of data generated by X-ray detectors for aerospace dosimetry, nuclear protection and for the recognition of materials linked to the recycling of raw materials.
1	<p>Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Davines S.p.A.</p> 	<ul style="list-style-type: none"> • Development and validation of analytical methods for studying the fungal degradation of raw materials of cosmetic interest and obtaining packaging.
2	<p>Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Intercos S.p.A.</p> 	<ul style="list-style-type: none"> • Eco-sustainable and/or circular economy materials for the industrialization of the cosmetic product. • Eco-sustainable materials for the final cosmetic packaging.

ADMISSION PROCEDURES		Assessment of QUALIFICATIONS: up to 60 points (a minimum score of 30 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 60 points Minimum score for ELIGIBILITY: 70/120
Foreign Language	Language the fluency of which shall be assessed during the Oral Exam: ENGLISH . The evaluation of the knowledge of this language will be oral and will consist in translating of a scientific text.	
CANDIDATES ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE (Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)		
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH		
LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT		
MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION		
ANNEX A	(art. 5 of the Competition notice)	
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)	
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)	
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)	
Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).	
FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)		
Statement of Research interest	Short text – maximum 2 pages – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests	
Scientific Publications	Articles and/or reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings	
Final mark of graduation		
Average of the exam marks	(for candidates enrolled under conditions and who graduate by 24.10.2022)	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.	Up to 20 points

Graduation mark	Score related to the final mark: - 110 with honors (magna cum laude): 20 points - 110: 16 points - From 105 to 109: 12 points - From 100 to 104: 8 points - From 95 to 99: 4 points - Under 95: 0 points	Up to 20 points
Average of the exam marks (if the candidate will attain the degree no later than 24 October 2022)	Score related to the average of the exam marks: - 30/30: 20 points - From 28/30 to 29/30: 16 points - From 26/30 to 27/30: 12 points - 25/30: 8 points - 24/30: 4 points - Under 24/30: 0 points	Up to 20 points
Graduation thesis	Consistency of the Master's Degree thesis with the doctoral program research topics (briefly describe the topics in the curriculum vitae)	Up to 10 points
Statement of Research Interest	Short text – maximum 2 pages – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD and at describing the specific research interests	Up to 5 points
Scientific publications	Articles and/or reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings	Up to 5 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM will focus on the candidate's motivation to attend the PhD, on the description of his specific research interests and on a discussion of the qualifications presented by the candidate.	<ul style="list-style-type: none"> ○ knowledge of foreign languages: 10 points ○ general knowledge of issue connected to the Master's thesis: 25 points ○ general knowledge of issues connected to the PhD course: 25 points 	Up to 60 points
SCHEDULE OF THE ADMISSION EXAMS		
ORAL EXAM	DATE	20 September 2022 (with possible extension to 21 September 2022)
	TIME	09:00 AM (Italian Time)
	PLACE	Department of Chemistry, Life Sciences and Environmental Sustainability CHEMISTRY BUILDING Parco Area delle Scienze, 17/A – Campus 43124 PARMA - ITALY
OTHER INFORMATION	For foreign candidates, the admission examinations may be held in English at the candidate's choice.	

CHEMICAL SCIENCES	
CYCLE	XXXVIII
COORDINATOR	Prof.ssa Alessia BACCHI email: alessia.bacchi@unipr.it Department of Chemistry, Life Sciences and Environmental Sustainability
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<p>A) Towards high value complex molecular architectures via atom-economical cascades</p> <p>B) Metal coordination and development of antiviral and anticancer compounds.</p> <p>C) PNA-based systems for link-and-release and their application for the realization of supramolecular mini-proteins</p> <p>D) Design and synthesis of organic mono- and multivalent ligands for medically relevant biomacromolecules and study of their properties</p> <p>E) Preparation, characterization and study of the catalytic and biological properties of mechanochemically obtained substances</p> <p>F) Integration of advanced analytical platforms for the detection and characterization of nano- and small microplastics: metrological traceability of measurement data to address environmental pollution and food safety issues (Project: Project: 21GRD07 PlasticTrace - Metrological traceability of measurement data from nano to small-microplastics for a greener environment and food safety, Bando: European Partnership on Metrology Call 2021 – Green Deal programme of EURAMET)</p> <p>G) Novel small molecule activation modes promoted by visible light</p>	
TRAINING OBJECTIVES	
<p>The training program aims to provide the PhD in Chemical Sciences the necessary skills to propose and manage research projects in the advanced fields of Analytical Chemistry, General and Inorganic Chemistry, Physical Chemistry, Industrial Chemistry, and Organic Chemistry . The PhD course in Chemical Sciences requires each student to work within one of the research groups active at the Chemistry Unit of the Department of Chemistry, Life Sciences and Environmental Sustainability (SCVSA), and to follow a specific training pathway in the chosen sector; this is achieved also through: participation in research activities at qualified centers both in Italy and abroad, participation to national and international schools and conferences, and through the publication of scientific results in international journals. Interdisciplinary training activities, aimed at developing PhD students the ability to exhibit, discuss and disseminate the subjects of their work both in the academic and industrial context and even more generally in society, are also part of the program.</p>	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022.</p>

POSITIONS PUT OUT TO COMPETITION	7	With Scholarship	7
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Position with Scholarship		
N°	Funding entity	Research Topic
3	Scholarship funded by University of Parma (Ministerial funds)	• Research Topic: A-B-C-D-E
1	Scholarship funded by University of Parma (University funds)	• Research Topic: A-B-C-D-E
1	Scholarship co-funded by Fondazione Cariparma	• Research Topic: A-B-C-D-E
1	Scholarship funded by the Department of Chemistry, Life Sciences and Environmental Sustainability (Project: 21GRD07 PlasticTrace - Metrological traceability of measurement data from nano to small-microplastics for a greener environment and food safety, Bando: European Partnership on Metrology Call 2021 – Green Deal programme of EURAMET)	• Research Topic: F
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)		
During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.		
N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 7 “PNRR Research”) 	• Research Topic: G: Novel small molecule activation modes promoted by visible light

ADMISSION PROCEDURES	<p>Assessment of QUALIFICATIONS: up to 40 points (a minimum score of 20 points shall be required to be admitted to the Oral Exam)</p> <p>ORAL EXAM: up to 80 points</p> <p>Minimum score for ELIGIBILITY: 70/120</p>
Foreign Language	Language the fluency of which shall be assessed during the Oral Exam: ENGLISH . The evaluation of the knowledge of this language will be oral and will consist in the discussion of part of the research topics in English.
<p>CANDIDATES ADMITTED TO THE ORAL TEST CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE</p> <p>(The Oral Exam takes place <u>in presence</u>. Candidates who intend to take the Oral Exam remotely must submit a motivated REQUEST, to this purpose, as per the model attached to the competition notice)</p>	
<p>THE INTERVIEW MAY BE HELD ALSO IN ENGLISH</p>	
<p>LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT</p>	
<p>MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION</p>	
ANNEX A	(art. 5 of the Competition notice)
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)





Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)	
Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).	
Research Project	Written in Italian or in English, according to the format attached to the competition notice. It will have to focus on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use of IT tools useful for verifying the originality of the submitted Project). <u>It does not represent a constraint with respect to the following choice of the doctoral thesis,</u> that shall be assigned by the Academic Board.	
FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)		
Statement of Research interest	Short text – maximum 1 page – in Italian or in English, aimed at: 1) explaining the candidate's reasons to attend the PhD programme; 2) research interests, with particular reference to topics of interest in the specific topics proposed; 3) skills that can contribute to a research project in the field of Chemical Sciences.	
Scientific Publications	Articles on scientific journals with referees, communications presented at conferences or symposia, book chapters, other publications related to Chemical Sciences.	
Other experiences	<ul style="list-style-type: none"> – Participation in Schools or training courses related to Chemical Sciences – Any awards received related to Chemical 	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	Relevance of the academic career as well as postgraduate experiences and other research activities related to Chemical Sciences	Up to 16 points
Graduation mark or Average of the exam marks (if the candidate will attain the degree no later than 24 October 2022)	Assignment of a score related to the final mark or, for candidates who will attain the degree by 24 October 2022, a score related to the average of the exam marks	Up to 5 points
Graduation thesis	Consistency of the Master's Degree thesis with the doctoral programme research topics	Up to 10 points
Research Project	Score related to the evaluation of the Project based on originality, impact and scientific substantiation.	Up to 2 points
Statement of Research Interest	Motivation and competence proved in the text presented	Up to 3 points
Scientific publications	Impact and relevance of the qualifications presented related to Chemical Sciences	Up to 4 points
ORAL EXAM	EVALUATION CRITERIA	POINTS

<p>The ORAL EXAM takes place in Italian or in English for foreign candidates. It includes a discussion of the qualifications presented by the candidate and an assessment of their scientific profile and design skills.</p>		<ul style="list-style-type: none"> ○ knowledge of the subject and skills of the candidate for the proposed research activities are assessed by a discussion on the qualifications submitted for evaluation ○ knowledge of English is assessed by discussion of topics of research and by understanding of scientific texts. 	Up to 80 points
SCHEDULE OF THE ADMISSION EXAMS			
ORAL EXAM	DATE	19 September 2022 (with possible extension in the following days)	
	TIME	10:30 AM (Italian time)	
	PLACE	Department of Chemistry, Life Sciences and Environmental Sustainability CHEMISTRY BUILDING Parco Area delle Scienze, 17/A – Campus 43124 PARMA - ITALY	
OTHER INFORMATION		<p>For foreign candidates, the admission examinations may be held in English at the candidate's choice.</p> <p>The choice of the Research Topic to be expressed in Annex A is not binding on the assignment of the research project, and it is intended to assess candidates skills during the admission exam.</p>	

FOOD SCIENCE

CYCLE	XXXVIII
COORDINATOR	Prof.ssa Chiara DALL'ASTA Food and Drug Department email: chiara.dallasta@unipr.it
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> • Development of new approaches to elucidate the metabolism of nutritionally relevant bioactive compounds • Study and characterization of innovative ingredients recovered from plant material, to be applied in novel food, through advanced chromatographic techniques and high resolution mass spectrometry • Antimicrobial resistance throughout the food chain • Microorganisms engineering for the production of metabolites of interest and transformation of molecules during fermentation processes • Criteria to select and use lactic acid bacteria to increase the sustainability, technological, nutritional, and functional properties of products and by-products throughout the agri-food chain. • Design and development of meat and dairy analogues using vegetable proteins from upcycled sources • Enzyme assisted extraction and modification of lignocellulosic biomasses for the production of functional oligosaccharides and other nutraceutical compounds • Switching Mediterranean consumers to Mediterranean sustainable healthy dietary patterns • Databases and analytical methods for nutritionally relevant plant bioactives and the food-microbiome-host interplay • Fertilizers from agri-food wastes for the intensification of sustainability in agriculture • Digital solutions for on-farm crop quality assessment • Innovative bioprocesses and extraction techniques of bioactive compounds from agricultural biomasses 	
TRAINING OBJECTIVES	
The PhD candidates will acquire advanced theoretical and practical expertise to provide innovative approaches and methodologies in the agro-food sector, under a multidisciplinary perspective.	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>

POSITIONS PUT OUT TO COMPETITION	12	With Scholarship	12
Position with Scholarship			
N°	Funding entity	Research Topic	
3	Scholarship funded by University of Parma (Ministerial funds)	<ul style="list-style-type: none"> • HUMAN NUTRITION • FOOD CHEMISTRY • FOOD INSPECTION 	

1	Scholarship co-funded by Fondazione Cariparma	<ul style="list-style-type: none"> FOOD MICROBIOLOGY
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)		
<p>During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.</p>		
N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship funded by Food and Drug Department (funds Project "PRIMASWITCHtoHEALTHY")	<ul style="list-style-type: none"> Switching Mediterranean consumers to Mediterranean sustainable healthy dietary patterns
1	Scholarship funded by Food and Drug Department (funds Project "FARE CARE-DIET")	<ul style="list-style-type: none"> Databases and analytical methods for nutritionally relevant plant bioactives and the food-microbiome-host interplay
1	Scholarship partly financed with UNIVERSITY funds and co-financed by Food and Drug Department	<ul style="list-style-type: none"> Design and development of meat and dairy analogues using vegetable proteins from upcycled sources
1	Scholarship funded by Food and Drug Department	<ul style="list-style-type: none"> Enzyme assisted extraction and modification of lignocellulosic biomasses for the production of functional oligosaccharides and other nutraceutical compounds
1	Scholarship financed with funds under the PNRR – Mission 4 component 1 (Ministerial Decree 351/2022 art. 7 "PNRR Research") 	<ul style="list-style-type: none"> Criteria to select and use lactic acid bacteria to increase the sustainability, technological, nutritional, and functional properties of products and by-products throughout the agri-food chain
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.4 National Center for Agricultural Technologies AGRITECH 	<ul style="list-style-type: none"> Fertilizers from agri-food wastes for the intensification of sustainability in agriculture
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.4 National Center for Agricultural Technologies AGRITECH 	<ul style="list-style-type: none"> Digital solutions for on-farm crop quality assessment
1	Scholarship financed under the PNRR – Mission 4 component 2 – Investment 1.4 National Center for Agricultural Technologies AGRITECH 	<ul style="list-style-type: none"> Innovative bioprocesses and extraction techniques of bioactive compounds from agricultural biomasses

ADMISSION PROCEDURES	<p>Assessment of QUALIFICATIONS: up to 30 points (a minimum score of 18 points shall be required to be admitted to the Oral Exam)</p> <p>ORAL EXAM: up to 90 points</p> <p>Minimum score for ELIGIBILITY: 70/120</p>
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Foreign Language	<p>Language the fluency of which shall be assessed during the Oral Exam: ENGLISH.</p> <p>The evaluation of the knowledge of this language will be oral and will consist in reading and translating of a scientific test.</p> <p>For foreign candidates, basic knowledge of ITALIAN LANGUAGE will also be assessed.</p>
<p align="center"> APPLICANTS ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE </p> <p align="center">(Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)</p>	
<p>THE INTERVIEW MAY BE HELD ALSO IN ENGLISH</p>	
<p align="center">LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT</p>	
<p align="center">MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION</p>	
ANNEX A	(art. 5 of the Competition notice)
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)
Qualifications	<p>Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).</p>
Research Project	<p>The research project shall consist of a maximum of 2 pages, be written in Italian or in English, focused on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use tools useful for verifying the originality of the submitted Project) concerning one of the specific topic indicated in this notice and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results, argumentation.</p> <p><u>The research project does not represent a constraint with respect to the following choice of the doctoral thesis</u>, that shall be defined together with the supervisor and approved by the Academic Board.</p>
<p align="center">FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)</p>	
Statement of Research interest	Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests
Scientific Publications	<p>Articles and/or reviews in scientific journals with peer reviewing, scientific book chapters with national or international circulation.</p> <p>The explicit indication of the candidate's contribution to the works presented for evaluation is a necessary requirement.</p>
Reference Letters	<p>Maximum no. 1 letter written by experts in the research areas working in public or private research institutions. It must be sent directly by the signatory to the e-mail address: foodsciencephd@unipr.it</p> <p>The submission by the candidate himself will not be accepted.</p>

Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program	
Other experiences (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> – Language proficiency certificates – Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes) – Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) 	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	<p>Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.</p> <p>The marks of the exams and the graduation mark and the consistency of the Master's Degree thesis with the doctoral program research topics will be the most relevant element of the evaluation.</p>	Up to 22 points
Statement of Research Interest	Originality and motivation to research	Up to 2 points
Scientific publications	<p>International peer-reviewed papers: up to 2 points</p> <p>National peer-reviewed papers: up to 1 point</p> <p>Book chapters: up to 1 point</p>	Up to 3 points
Reference Letters	Attestation of motivation and aptitude for the research	Up to 2 points
Other Academic qualifications	in subjects related to the research areas of the PhD course	Up to 1 point
Other experiences	Aptitude to research activity and congruence with the research topics and the objectives of the PhD course	Up to 2 points
The Research Project will be evaluated during the Oral Exam		
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intended to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course	<ul style="list-style-type: none"> ○ English reading and speaking and for foreign candidates also Italian language: up to 10 points ○ research project presentation: max 50 points ○ general knowledge of issues connected to the PhD course: max 30 points 	Up to 90 points
SCHEDULE OF THE ADMISSION EXAMS		
ORAL EXAM	DATE	19 September 2022 (with possible extension in the following days)
	TIME	09:00 AM (Italian Time)
	PLACE	Food and Drug Department Parco Area delle Scienze, 27/A – Campus 43124 PARMA - ITALY
OTHER INFORMATION	For foreign candidates it is possible to carry out the admission examination exclusively in English, after checking the basic knowledge of ITALIAN LANGUAGE. For Italian candidates it will be possible to take the admission examination in Italian or in English at the candidate's choice.	

DRUG SCIENCES




CYCLE	XXXVIII
COORDINATOR	Prof. Marco MOR email: marco.mor@unipr.it Food and Drug Department
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> • Biochemistry and Molecular Biology • Biopharmaceutics – Pharmacokinetics • Bio-organic chemistry • Experimental Pharmacology and Toxicology • Drug Design and Synthesis 	
TRAINING OBJECTIVES	
<p>The PhD programme "Drugs Sciences" is aimed at the preparation of "Dottori di ricerca" having scientific bases and research experience in the design, discovery, development, production and control of drugs and health products, as well as in the investigation of mechanisms of action for drugs and bioactive compounds. The Course offers multi-disciplinary formation in different scientific areas, mainly chemical and biological with particular focus on medicinal chemistry, pharmaceutical technology, pharmacology and biochemistry. All the contributions converge toward the education and research training of PhD students who, at the end of the course, are expected to produce innovation and new knowledge in the field of drugs, biomolecules, health products and their interaction with biological substrates.</p>	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>

POSITIONS PUT OUT TO COMPETITION	15	With Scholarship	12
		Reserved for employees of companies or public institutes and research centers engaged in highly qualified activities	3
Position with Scholarship			
N°	Funding entity		Research Topic
2	Scholarship funded by University of Parma (Ministerial funds)		<ul style="list-style-type: none"> • Biopharmaceutics-Pharmacokinetics • Drug Design and Synthesis
2	Scholarship funded by University of Parma (University funds)		<ul style="list-style-type: none"> • Bio-organic Chemistry • Experimental Pharmacology and Toxicology

1	Scholarship co-funded by Fondazione Cariparma	<ul style="list-style-type: none"> • Drug Design and Synthesis
1	Scholarship funded by Food and Drug Department	<ul style="list-style-type: none"> • Biochemistry and Molecular Biology
1	Scholarship funded by Food and Drug Department	<ul style="list-style-type: none"> • Drug Design and Synthesis
1	Scholarship funded by Food and Drug Department	<ul style="list-style-type: none"> • Biopharmaceutics-Pharmacokinetics

Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Food and Drug Department	<ul style="list-style-type: none"> • Pharmacological evaluation of new Eph/ephrin ligands
1	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 7 “PNRR Research”) 	<ul style="list-style-type: none"> • Drug-delivery strategies for the treatment of degenerative pathologies of the posterior segment of the eye
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company Chiesi Farmaceutici S.p.A. 	<ul style="list-style-type: none"> • Characterization with spectroscopic / spectrometric techniques of the structure and dynamics of target proteins and of the effects of macro and micromolecular interactors
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company PLUMESTARS S.r.l. 	<ul style="list-style-type: none"> • Innovative nasal powders for vaccinations and viral infection treatment of viral infections

**Position reserved for EMPLOYEES
of companies or public institutes and research centers engaged in highly qualified activities**

N°	Company/Institution
1	Reserved to employees of company Chiesi Farmaceutici S.p.A.
1	Reserved to employees of company Preclinics Gesellschaft für präklinische Forschung mbH
1	Reserved to employees of company Laboratorio di analisi La Fontana

ADMISSION PROCEDURES	<p>Assessment of QUALIFICATIONS: up to 50 points (a minimum score of 30 points shall be required to be admitted to the Oral Exam)</p> <p>ORAL EXAM: up to 70 points</p> <p>Minimum score for ELIGIBILITY: 70/120</p>
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Foreign Language	Language the fluency of which shall be assessed during the Oral Exam: ENGLISH . The evaluation of the knowledge of this language will be oral and will consist in reading and translating of a scientific text.	
CANDIDATES ADMITTED TO THE ORAL EXAM WILL TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE FOR PROVEN REASONS		
(The Oral Exam takes place <u>in the presence</u> .; The remote oral exam is allowed for candidates residing abroad or temporarily abroad for study / work reasons or in isolation / quarantine for COVID-19 virus infection. To this end, candidates must submit a motivated REQUEST as per the model attached to the competition announcement)		
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH		
LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT		
MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION		
ANNEX A	(art. 5 of the Competition notice)	
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)	
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)	
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)	
Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).	
Research Project	The research project shall consist of a maximum of 3 pages, be written in Italian or in English, focused on an original research topic and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results. It should be noted that the Examination Board can use tools useful for verifying the originality of the submitted Project. <u>The research project does not represent a constraint with respect to the following choice of the doctoral thesis</u> , that shall be defined together with the supervisor and approved by the Academic Board.	
FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)		
Scientific Publications	Articles and/or reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings.	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.	Up to 20 points

Graduation thesis	Consistency of the Master's Degree thesis with the doctoral program research topics	Up to 10 points
Research Project	Points relating to the research project shall be allocated on the basis of the following criteria: <ul style="list-style-type: none"> ○ Scientific value and ground-breaking nature of the proposal: 5 points ○ description and structure of the proposal: 5 points ○ consistency with the themes of the doctorate: doctorate proposal feasibility: 5 points 	Up to 15 points
Scientific publications	Articles and/or reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings.	Up to 5 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course	<ul style="list-style-type: none"> ○ knowledge of the oreign language: max 10 points ○ research project presentation: max 30 points ○ general knowledge of issues connected to the PhD course: max 30 points 	Up to 70 points
SCHEDULE OF THE ADMISSION EXAMS		
ORAL EXAM	DATE	16 September 2022 (with possible extension in the following days)
	TIME	09:30 am (Italian Time)
	PLACE	Food and Drug Department Parco Area delle Scienze, 27/A – Campus 43124 PARMA - ITALY
OTHER INFORMATION	For foreign candidates, the admission examinations may be held in English at the candidate's choice.	

EARTH SCIENCES

CYCLE	XXXVIII
COORDINATOR	Prof. Marco ROVERI email: marco.roveri@unipr.it Department of Chemistry, Life Sciences and Environmental Sustainability
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> • Debris-flows in Northern Apennines and climate change: recent event analysis and reconstructions at different temporal scales • The calcareous nannofossils of the Southern Ocean in the Eocene - Oligocene interval: paleoecological, paleoclimatic and paleoceanographic implications • Fracture pattern and connectivity in folded and faulted sandstone turbidites: implications for subsurface fluid mobility in fractured reservoirs • The role of Messinian evaporites on the deformational style of the Crotonese sector of the Calabrian Arc • Carbonate production during the Messinian salinity crisis • Genetic processes and possible exploitation of natural hydrogen systems • Reconstructing the plumbing system of Marsili seamount (Southern Tyrrhenian): a combined petro-chemical and experimental petrology approach 	
TRAINING OBJECTIVES	
The main aim of the Ph.D. Course in Earth Sciences is to provide highly qualified study and research paths within the large and multidisciplinary framework of Geosciences.	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – "Laurea Magistrale" LM-11 Science for the conservation of cultural heritage – "Laurea Magistrale" LM-35 Environmental Engineering – "Laurea Magistrale" LM-60 Natural Sciences – "Laurea Magistrale" LM-74 Geology – "Laurea Magistrale" LM-75 Environmental and land sciences – "Laurea Magistrale" LM-79 Geophysics <p>as well as the equivalent "laurea specialistica" or "laurea" achieved based on the university system in force before the entry into force of Italian Ministerial Decree No. 509/99</p> <ul style="list-style-type: none"> – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral programs <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>

POSITIONS PUT OUT TO COMPETITION	6	With Scholarship	5
		Reserved for employees of companies or public institutes and research centers engaged in highly qualified activities	1
Position with Scholarship			
N°	Funding entity		Research Topic, if any
3	Scholarship funded by University of Parma (Ministerial funds)		---

1	Scholarship co-funded by Fondazione Cariparma	---
1	Scholarship funded by Department of Chemistry, Life Sciences and Environmental Sustainability (funds of "Departments of Excellence" program)	---
Position reserved for EMPLOYEES of companies or public institutes and research centers engaged in highly qualified activities		
N°	Company/Institution	Bound research topic
1	Reserved to employees of company Petroleo Brasileiro S.A. - Petrobras	<ul style="list-style-type: none"> Modeling of depositional systems and turbidite facies variations at the basin scale: relationship between field data and machine and deep learning

ADMISSION PROCEDURES	<p>Assessment of QUALIFICATIONS: up to 50 points (a minimum score of 30 points shall be required to be admitted to the Oral Exam)</p> <p>ORAL EXAM: up to 70 points</p> <p>Minimum score for ELIGIBILITY: 70/120</p>
Foreign Language	<p>Language the fluency of which shall be assessed during the Oral Exam: ENGLISH.</p> <p>The assessment of knowledge of this language will be oral and will consist in reading and translating a paragraph of scientific text.</p>
<p>APPLICANTS ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE</p> <p>(Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)</p>	
<p>THE INTERVIEW MAY BE HELD ALSO IN ENGLISH</p>	
<p>LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT</p>	
<p>MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION</p>	
ANNEX A	(art. 5 of the Competition notice)
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)
Qualifications	<p>Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).</p>
Research Project	<p>The research project shall consist of a maximum of 3 pages, be written in Italian or in English, focused on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use tools useful for verifying the originality of the submitted Project) and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results. <u>it does not represent a constraint with respect to the following choice of the doctoral thesis, that shall be defined together with the supervisor and approved by the Academic Board.</u></p>


FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)		
Statement of Research Interest	Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests	
Scientific Publications	Articles on national and international journals, papers presented at conferences or symposia, monographs, chapters of books, convention papers, reviews	
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program	
Other experiences (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> – Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covered by research grant, and as a staff member of research units – Periods of study abroad, outside the country of origin (e.g., Erasmus programme or other similar mobility programmes) – Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) 	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	<p>Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.</p> <p>The marks of the exams and the graduation mark will be the most relevant element of the evaluation.</p>	Up to 6 points
Graduation mark	<p>Score related to the final mark:</p> <ul style="list-style-type: none"> - 110 and 110 with honours (magna cum laude): 5 points - from 107 to 109: 4.5 points - from 105 to 106: 3.5 points - from 100 to 104: 2.5 points - from 95 to 99: 1 point - - under 95: 0.5 points 	Up to 5 points
Average of the exam marks (if the candidate will attain the degree no later than 24 October 2022)	<p>Score related to the average of the exam marks:</p> <ul style="list-style-type: none"> - from 28 to 30: 5 points - from 27 to 27.99: 4.5 points - from 26.5 to 26.99: 3.5 points - from 26 to 26.49: 2.5 points - from 25 to 25.99: 1 point - under 25: 0.5 points 	Up to 5 points
Graduation thesis	Congruence with the research topics of the PhD course and quality of the research methodology	Up to 8 points
Research Project	<p>Points relating to the research project shall be allocated on the basis of the following criteria:</p> <ul style="list-style-type: none"> ○ Scientific value and or originality of the proposal: max 8 points ○ description and structure of the proposal: max 3 points ○ proposal feasibility: max 3 points ○ consistency with the research themes of the PhD course: max 8 points 	Up to 22 points
Statement of Research Interest	Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests	Up to 1 point

Scientific publications	<ul style="list-style-type: none"> ○ Abstract presented at a national or international congress: 0,5 points ○ Articles on scientific journals (ISI/SCOPUS): 2 points ○ Other publication (related to the topics of PhD program): 1 point 	Up to 5 points
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program	Up to 1 points
Other experiences	<ul style="list-style-type: none"> ○ Periods of study abroad: 1 point Scholarships, scientific associations awards: 1 point 	Up to 2 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course	<ul style="list-style-type: none"> ○ knowledge of foreign languages: 5 points ○ research project presentation: 50 points ○ general knowledge of issues connected to the PhD course: 15 points 	Up to 70 points
SCHEDULE OF THE ADMISSION EXAMS		
ORAL EXAM	DATE	19 September 2022 (with possible extension to 20 September 2022)
	TIME	09:00 AM (Italian Time)
	PLACE	<p>remotely (at the request of the candidate) using the Microsoft Teams platform</p> <p>in presence at: Department of Chemistry, Life Sciences and Environmental Sustainability EARTH SCIENCES BUILDING Parco Area delle Scienze, 157/A – Campus 43124 PARMA - ITALY</p>
OTHER INFORMATION	For foreign candidates, the admission examinations may be held in English at the candidate's choice.	

PHILOLOGICAL-LITERARY, HISTORICAL-PHILOSOPHICAL AND ARTISTIC STUDIES

CYCLE	XXXVIII
COORDINATOR	Prof. Italo TESTA email: italo.testa@unipr.it Department of Humanities, Social Sciences and Cultural Industries
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> • Greek and Latin Philology • Philosophy • Italianistics and Romance Philology • Foreign Languages and Literatures • History • History of Art and Entertainment 	
TRAINING OBJECTIVES	
<ul style="list-style-type: none"> • In Greek and Latin Philology the knowledge and skills of doctoral candidates will be deepened in the sciences of antiquity, with particular reference to linguistics, philological-literary studies, archaeology, papyrology, and the development of the Greek-Latin tradition in the Middle Ages and the Humanities. The doctoral candidates will be led to realize a critical edition, a commentary or an essay, concerning texts in Greek or Latin, or the edition of sources or archaeological contexts, according to the complete time span of their tradition and their continuity of life. • In Philosophy, PhD students' critical ability and logical-argumentative skills will be developed, as will their knowledge in the history of philosophy. Phd students will acquire the ability to conduct an original piece of research – which requires being able to put into practice conceptual analysis, reasoning, historic and philological documentation – in the fields of theoretical philosophy, the philosophy of language and aesthetics, and the history of medieval, modern and contemporary philosophy. • In Italian and Romance Studies the aim is to train researchers able both in the linguistic and philological fields as well as literary theory. They will be able to produce critical texts and commentaries of texts from the Romance field or that of Italian literature, and to conduct innovative, historical-literary or thematic analysis of various time periods. • In Foreign Languages and Literature, the focus is on the learning of languages and foreign literature within the European area (English, French, German, Spanish and Russian) as well as, where applicable, their expression in the field of post colonialism. Within the course, original and innovative research activities, based on the latest theoretical and methodological approaches and relevant to the discipline of linguistics (translation, discourse analysis, corpus linguistics, lexicography) and the historical-critical analysis of literature and of the culture between the early modern age and contemporaneity, are promoted. • In History, the goal is to train young academics in the field of historical sciences through the acquisition of skills, methodologies and critical abilities that are necessary for historical, classical and contemporary-age research. PhD students will be supervised during their realisation of original and innovative research projects, focused on various types of sources and dealing with the main issues relating to different perspectives in political and religious history, the history of ideas, and social and economic analysis. • In History of Art and the Performing Arts, the aim is to provide the methodological and critical tools necessary for conducting research in the history of medieval art, or modern or contemporary art, in the history of criticism and museology, but also in the fields of the history of theatre and cinema. PhD students will acquire the ability to consciously recall critical debate, to be able to read the various sources available, and above all the ability to employ philological tools when reading an image. 	

ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>
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POSITIONS PUT OUT TO COMPETITION	13	With Scholarship	13
Position with Scholarship			
N°	Funding entity	Research Topic, if any	
3	Scholarship funded by University of Parma (Ministerial funds)	---	
1	Scholarship funded by University of Parma (University funds)	---	
3	Scholarship funded by University of	---	
1	Scholarship co-funded by Fondazione Cariparma	---	
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)			
<p>During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.</p>			
N°	Funding entity	BOUND RESEARCH TOPIC	
3	<p>Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 8 “Public Administration”)</p> 	<ul style="list-style-type: none"> • Museology and History of Collecting: development and implementation of a digital platform for the dematerialization of the scientific catalogue of the <i>Gallerie Estensi</i>, with particular attention to digital cataloguing applied to the history of collections. • Archival Science, Bibliography and Librarianship: development and implementation of a digital platform for the dematerialization of the scientific catalogue of the <i>Gallerie Estensi</i>, suitable for the communication side (Web front-end) as well as for internal administration. • Archival Science, Bibliography and Librarianship: determination and development of suitable solutions for digitalization and metadata management referred to archival documents of the Houses of Farnese and Bourbon-Parma, preserved in the <i>Archivio di Stato di Parma</i>. 	
2	<p>Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 9 “Cultural Heritage”)</p>	<ul style="list-style-type: none"> • For a new aesthetic-practical model of mountain landscape, between nature and culture: The project aims to investigate the aesthetic experiences and the crossing practices of the Apennine mountain landscape as a material and 	

	 Finanziato dall'Unione europea NextGenerationEU  	<p>intangible Cultural Heritage to be valued in an eco-sustainable sense. The project moves within aesthetic-philosophical coordinates of a neo-phenomenological and neo-materialistic type with openings to other disciplinary perspectives. The project also aims to analyze case studies in collaboration with the CAI with particular reference to the APE.</p> <ul style="list-style-type: none"> • <u>Parma as european crossroad: the Festival Internazionale del Teatro Universitario (FITU, 1953-1975). Research in archive and history of a cultural heritage which belong to the town and University of Parma:</u> The Ph.D. Project aims at continuing the historical research wich started with a class of students of Dusic Department, guided by prof. Roberta Gandolfi, in collaboration with Archivio storico del Teatro Regio, Archivio Storico dell'Università di Parma, and other archives in Parma (Archivio storico della Fondazione Teatro Due, Archivio del Centro Studi Movimenti), which deals with the decades of FITU, when Parma became a crossroad of national and international theatre. It is a precious cultural heritage little explored, up to know, which needs investigation.
2	<p>Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Edizioni Centro Studi Erickson S.p.A.</p>  Finanziato dall'Unione europea NextGenerationEU  	<ul style="list-style-type: none"> • <i>Inclusive Language education:</i> The research project will be carried out within a strategic partnership agreement with Edizioni Centro Studi Erickson S.p.A. The two research scholarships will pertain the scientific field “L-LIN/02 Educational Linguistics” and will revolve around linguistic, communicative and professional competences of inclusive language education. Both scholarships will focus on: 1) the development, analysis and certification of linguistic and communicative competences of monolingual and bilingual learners with and without language/learning disorders; 2) the professional profile and development of the language educators (teachers, tutors, social workers) who work with these types of learners

ADMISSION PROCEDURES	<p>Assessment of QUALIFICATIONS: up to 80 points (a minimum score of 30 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 40 points Minimum score for ELIGIBILITY: 70/120</p>
Foreign Language	<p>Language the fluency of which shall be assessed during the Oral Exam: <u>FRENCH, ENGLISH, GERMAN, SPANISH</u> (at the candidate's choice). The evaluation of the knowledge of this language will be oral and will consist in reading and translating of a short passage.</p>
<p>APPLICANTS ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE</p> <p>(Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)</p>	

THE INTERVIEW MAY BE HELD ALSO IN ENGLISH

LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT










MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION		
ANNEX A	(art. 5 of the Competition notice)	
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)	
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)	
Abstract of degree thesis And degree thesis	PDF of the Abstract (10.000 characters including spaces) and PDF of the second cycle master's degree thesis Undergraduate applicants shall submit the abstract and the draft of the thesis approved by their supervisor through a short statement attached to the draft	
Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).	
Research Project	The research project shall consist of a maximum of 20.000 characters (including spaces and excluding reference bibliography), written in Italian or in English. The project shall be focused on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use of IT tools useful for verifying the originality of the submitted Project) and it shall be structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results, argumentation. The project <u>does not represent a constraint with respect to the following choice of the doctoral thesis</u> , that shall be defined together with the supervisor and approved by the Academic Board.	
FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)		
Scientific Publications	Monographs, articles in national and international scientific journals, book chapters, conference proceedings, reviews.	
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program	
Other experiences (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> - Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes) - Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) 	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Graduation mark	Score related to the final mark: - - 110 with honours (magna cum laude)	Up to 1 point
Average of the exam marks	Score related to the average of the exam marks: - 30/30	Up to 1 point
Graduation thesis	Consistency of the Master's Degree thesis with the doctoral programme research topics, methodological rigor, knowledge of critical literature	Up to 25 points

Research Project	Points relating to the research project : (originality, articulation, feasibility of the proposal)	Up to 25 points
Scientific publications	Monographs, articles in national and international scientific journals, book chapters, conference proceedings, reviews.	Up to 14 points
Other experiences	Post lauream scholarship, experience abroad, award, etc.	Up to 14 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course	<ul style="list-style-type: none"> ○ knowledge and methodology necessary for the realization of the project: max 35 points ○ knowledge of chosen foreign language: max 5 points 	Up to 40 points
ORAL EXAM	DATE	20 September 2022
	TIME	09:30 AM (Italian Time)
	PLACE	Department of Humanities, Social Sciences and Cultural Industries Via D'Azeglio, 85 43125 PARMA - ITALY
OTHER INFORMATION	For foreign candidates, the admission examinations may be held in English at the candidate's choice.	

JURIDICAL SCIENCES

CYCLE	XXXVIII
COORDINATOR	Prof. Fabio Salvatore CASSIBBA email: fabiosalvatore.cassibba@unipr.it Department of Law, Politics and International Studies
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
PARTNER INSTITUTION	University of Modena e Reggio Emilia
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> • Commercial Law (IUS/04) • AI and Public Administration. Problems and topics of the algorithmic decision (IUS/08 - Constitutional Law) • Sustainability and next generations' interests about the politics against climate change (IUS/08 - Constitutional Law) • Structural innovations and new models of governance (IUS/10 - Administrative Law) • Tax Law (IUS/12) • Civil procedure (IUS/15) • Criminal Law (IUS/17) • Philosophy Law (IUS/20) • Right to a sustainable, healthy and "inedible" food: comparative perspectives (IUS/21 - Public comparative law) • Criminology (MED/43) 	
TRAINING OBJECTIVES	
<p>The project of the doctoral course in Law Sciences is developed by a plurality of higher education activities, throughout the three-year period and divided into various types.</p> <p>First of all, the PhD program intends to enhance - from the first year - interdisciplinary / multidisciplinary / transdisciplinary activities, through the provision of various courses, concerning topics of general or transversal legal interest. The related courses (some delivered exclusively in English) will be held by 1st and 2nd level professors and by RTD-B researchers, as well as by experts from the various scientific disciplinary sectors involved, so as to favor the acquisition of skills and professionalism truly adequate for the objectives. training courses, on a methodological level, on that of reasoning and analysis in the legal field, of the in-depth knowledge required at the level of professional opportunities. In addition, the aim is improving the linguistic skills of doctoral students in the legal field. These didactic activities will take place - in particular although not exclusively - in the first year of the doctorate, in order to allow the PhD students, on one hand, to acquire a solid and interdisciplinary "initial" training, also on the methodological profiles and tools necessary for research ; on the other hand, to give them the opportunity in subsequent years to improve their skills in specific disciplinary sectors, also through periods of stay abroad, in view, then, of the drafting of the doctoral thesis. The PhD course also provides for strengthening the theoretical skills of the students through the conduct of lessons (also in a foreign language) on legal issues related to the individual scientific disciplinary sectors referable to "Area 12" /Law Science), held by 1st or 2nd level professors. o by RTD-B researchers Italian or foreign, as well as by experts in the field, including foreigners. Finally, the doctoral course intends to enrich the training of PhD students, encouraging their participation in conferences, study meetings, seminars (typically, although not exclusively, organized or sponsored by universities, including foreign ones, and by national or international research bodies), also abroad, which from time to time will be accredited as moments of common, interdisciplinary or sector teaching.</p>	

ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>
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POSITIONS PUT OUT TO COMPETITION	11	With Scholarship	11
Position with Scholarship			
N°	Funding entity		Research Topic
3	Scholarship funded by University of Parma (Ministerial funds)		<ul style="list-style-type: none"> • Tax Law (IUS/12) • Criminal Law (IUS/17) • Philosophy Law (IUS/20)
3	Scholarship funded by University of Modena e Reggio Emilia		<ul style="list-style-type: none"> • Commercial Law (IUS/04) • Civil procedure (IUS/15) • Criminology (MED/43)
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)			
<p>During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.</p>			
N°	Funding entity		BOUND RESEARCH TOPIC
2	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 8 “Public Administration”) <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">  <div style="font-size: 8px;"> Finanziato dall'Unione europea NextGenerationEU </div>   </div>		CONSTITUTIONAL LAW (IUS/08): <ul style="list-style-type: none"> • AI and Public Administration. Problems and topics of the algorithmic decision • Sustainability and next generations’ interests about the politics against climate change
2	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 8 “Public Administration”) <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">  <div style="font-size: 8px;"> Finanziato dall'Unione europea NextGenerationEU </div>   </div>		ADMINISTRATIVE LAW (IUS/10): <ul style="list-style-type: none"> • Structural innovations and new models of governance
1	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 8 “Public Administration”) <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">  <div style="font-size: 8px;"> Finanziato dall'Unione europea NextGenerationEU </div>   </div>		PUBLIC COMPARATIVE LAW (IUS/1): <ul style="list-style-type: none"> • Right to a sustainable, healthy and “inedible” food: comparative perspectives (Public comparative law)

ADMISSION PROCEDURES	Assessment of QUALIFICATIONS: up to 70 points (a minimum score of 35 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 50 points Minimum score for ELIGIBILITY: 70/120
Foreign Language	Language the fluency of which shall be assessed during the Oral Exam: ENGLISH . The evaluation of the knowledge of this language will be oral and will consist in translating of a scientific text etc.
<p align="center">CANDIDATES ADMITTED TO THE ORAL TEST CAN TAKE THE EXAM IN PRESENCE.</p> <p>The Oral Test can be held <u>remotely</u> via audio and video teleconference in case of isolation / quarantine due to COVID-19 virus infection. To this end, candidates must submit a motivated REQUEST as per the model attached to the competition.</p>	
<p align="center">LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT</p>	
<p align="center">MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION</p>	
ANNEX A	(art. 5 of the Competition notice)
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)
Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).
Research Project	Written in Italian or in English, according to the format attached to the competition notice, it will have to focus on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use of IT tools useful for verifying the originality of the submitted Project). <u>It does not represent a constraint with respect to the following choice of the doctoral thesis, which will be assigned by the Academic Board.</u>
<p align="center">FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)</p>	
Scientific Publications	Monographs, articles in scientific journals, chapters in collective volumes (uniquely referable to the candidate).
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects consistent with the research topics of this PhD program
Other experiences (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> - Research activity (basic, applied, translational, etc.) carried out in any capacity, including when covered by research grant, and as a staff member of research units - Working activity - Professional and/or training internship - Language proficiency certificates - Periods of study abroad, outside the country of origin (e.g. Erasmus programme or other similar mobility programmes) - Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.)

EVALUATION CRITERIA

QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.	Up to 33points
Graduation mark	Score related to the final mark: - 110 with honours (magna cum laude): 5 points; - 110: 3 points	Up to 5 points
Average of the exam marks (if the candidate will attain the degree no later than 24 October 2022)	Score related to the average of the exam marks: - 30/30: 5 points - From 27/30 to 29/30: 3 points	Up to 5 points
Graduation thesis	Congruence with the research topics of the PhD course for the scientific disciplinary sectors available for competition	Up to 2 points
Research Project	Points relating to the research project: <ul style="list-style-type: none"> ○ methodological rigor: max 10 points ○ originality: max 8 points ○ consistency with the topics of the scientific disciplinary sector of reference: max 2 points 	Up to 20 points
Scientific publications		Up to 5 points
Other Academic qualifications		Up to 3 points
Other experiences		Up to 2 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course	<ul style="list-style-type: none"> ○ presentation of the project: max 30 points ○ preparation on the topics of the scientific disciplinary sector of reference for the project: max 20 points 	Up to 50 points

SCHEDULE OF THE ADMISSION EXAMS

ORAL EXAM	DATE	19 September 2022 (with possible extension to 20 September 2022)
	TIME	03:00 PM (Italian Time)
	PLACE	"BANDIERA" CLASSROOM University of Parma - CENTRAL PALACE Via Università, 12 43121 PARMA - ITALY
OTHER INFORMATION	For foreign candidates it is possible to carry out the admission examination exclusively in English.	

TRASLATIONAL MEDICAL AND SURGICAL SCIENCES

CYCLE	XXXVIII
COORDINATOR	Prof. Nicola SVERZELLATI email: nicola.sverzellati@unipr.it Department of Medicine and Surgery
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ol style="list-style-type: none"> 1. Stem cells in the diagnosis and treatment of neoplasms, chronic and degenerative disorders, cardiovascular diseases and musculoskeletal diseases; 2. Translational medicine and immunologic dysregulation of gastrointestinal, respiratory, infective, haematological, oncological, endocrinological, nephrological and dermatological diseases, and of vasculitis; 3. Plasticity, function and diagnostic-therapeutic use of genomic, transcriptomic, proteomic and metabolomic platforms of cells, organs and tissues to prevent or treat neoplasms, infections, chronic and degenerative diseases, metabolic dysfunctions, obstetrics and neonatal diseases as well as in response to environmental factors, lifestyles and drugs; 4. Development and “theragnostic” function of imaging and technologically advanced phenotyping platforms to prevent or treat neoplasms, infections, chronic and degenerative diseases, metabolic dysfunctions, obstetrics and neonatal diseases as well as in response to environmental factors, lifestyles and drugs; 5. Development and application of technologically advanced devices (i.e. biological devices), to measure and support and/or replace the function of cells, tissues or organs in medical and/or surgical diseases; 6. Advanced and innovative strategies for recovery and functional rehabilitation to prevent or treat neoplasms, infections, chronic and degenerative diseases, metabolic dysfunctions, obstetrics and neonatal diseases as well as in response to environmental factors, lifestyles and drugs; 7. Role of governance and organization of healthcare systems and services in the prevention and care of disorders with a potentially high social and economic impact, including, but not limited to, environmental and professional diseases; 8. Role of microbiota and microbiome in translational medicine and surgery; 9. Retrieval and role of “big data” in translational medicine and surgery; 10. Role of advanced technologies, including robotics, in translational surgery <ul style="list-style-type: none"> • Role of qualitative and quantitative imaging in the diagnosis of neoplasms, infections and chronic degenerative diseases 	
TRAINING OBJECTIVES	
<p>The PhD Program in Translational Medical and Surgical Sciences is a multidisciplinary program, in which the common denominator of the various research activities conducted by the PhD students is represented by the application of the acquired knowledge to clinical practice. In fact, the close link between preclinical and clinical research will allow discoveries and methodological skills acquired through experimental studies to be transferred into medical practice. Such a link will enable PhD students to deal with real problems, ranging from diagnosis to therapy and from prevention to rehabilitation, all of which deeply connected with human diseases and patient care.</p> <p>The bidirectional exchange between lab and clinical research will bring back to the lab the results of clinical and epidemiological observations, and at the same time it will anchor experimental research to issues that originate from real-world inputs and tests carried out directly on humans.</p> <p>Therefore, the final goal of the PhD Program in Translational Medical and Surgical Sciences is to provide a highly qualifying training to the PhD students, offering them opportunities, skills and technological resources necessary to practice translational research at a high level in either public or private Institutions, national or international, including, but not limited to, Universities, Research Institutes and PharmaMed Industries.</p>	

ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>
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POSITIONS PUT OUT TO COMPETITION	8	With Scholarship	6
		Reserved for employees of companies or public institutes and research centers engaged in highly qualified activities	2
Position with Scholarship			
N°	Funding entity		Research Topic, if any
3	Scholarship funded by University of Parma (Ministerial funds)		---
1	Scholarship co-funded by Fondazione Cariparma		---
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)			
During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.			
N°	Funding entity		BOUND RESEARCH TOPIC
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Medicine and Surgery		<ul style="list-style-type: none"> • Role of the bone marrow microenvironment in the progression of multiple myeloma
1	Scholarship partly financed with UNIVERSITY funds and co-financed by AIL PARMA ODV		<ul style="list-style-type: none"> • Development of high throughput platforms for the identification of new targets and therapies in acute leukemia
Position reserved for EMPLOYEES of companies or public institutes and research centers engaged in highly qualified activities			
N°	Company/Institution		
2	Reserved to employees of Azienda Unità Sanitaria Locale of Piacenza		

ADMISSION PROCEDURES	<p>ASSESSMENT OF QUALIFICATIONS: up to 45 points ORAL EXAM: up to 75 points MINIMUM SCORE FOR ELIGIBILITY: 70/120</p>
Foreign Language	<p>Language fluency which shall be assessed during the Oral Exam: ENGLISH. The knowledge of the English language will be assessed orally and will consist in reading and translating a scientific text.</p>
<p>APPLICANTS ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE</p> <p>(Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)</p>	

THE INTERVIEW MAY BE HELD ALSO IN ENGLISH

LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT

MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION	
ANNEX A	(art. 5 of the Competition notice)
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)
Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).
Research Project	The research project, written in Italian or in English and consisting of a maximum of 3 pages, shall be focused on an original research topic (unpublished, developed personally by the applicant. It should be noted that the Examination Board can use IT tools to verify the originality of the submitted Project) and structured as follows: scientific context, significance of the problem, expected results. <u>The research project does not represent a constraint with respect to the following choice of the doctoral thesis</u> , that shall be defined with the supervisor and approved by the Academic Board.
FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)	
Statement of Research interest	Short text – maximum 1 page – in Italian or in English, aimed at explaining the applicant's reasons to attend the PhD program and at describing her/his specific research interests
Scientific Publications	Articles and/or reviews published on peer-reviewed scientific journals, abstracts of papers or posters presented at conventions or meetings; book chapters, etc.
Reference Letters	A maximum of 2 letters, written by Professors or Researchers from the applicant's University or from other Universities or from experts in the research field working in public or private research facilities. The reference letters must be produced on the letterhead of the University/Operating Unit/Structure of the Referee and attached to the online application by the applicant.
Other Academic qualifications	First or second level Master's degree obtained in Italy and/or specialization degree in subjects related to the research topics of this PhD program.
Other experiences (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> – Research activities (basic, applied, translational, etc.) carried out in any way, including those covered by research grant, and conducted as a staff member of research units – Working activity – Activities at accredited laboratories – Professional and/or training internship – Language proficiency certificates – Periods of study abroad, outside the country of origin (e.g. Erasmus or similar programmes) – Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.)

EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark. The marks of the exams and the graduation mark will be the most relevant element of the evaluation.	Up to 9 points
Graduation mark	Score assignable to the final mark: - 110 with honours (magna cum laude): 5 points; - 110: 3 points; - From 106 to 109: 2 points; - - From 102 to 105: 1 point.	Up to 5 points
Average of the exam marks (if the candidate will attain the degree no later than 24 October 2022)	Score assignable to the average of the exam marks: - 30/30: 5 points; - From 28/30 to 29/30: 3 points; - From 26/30 to 27/30: 2 points; - From 24/30 to 25/30: 1 point.	Up to 5 points
Graduation thesis	Congruence with the research topics of the PhD Program and quality of the research methodology	Up to 2 points
Research Project	Score assignable for the research project: ○ Scientific value and ground-breaking nature of the proposal: max 7 points ○ Description and structure of the proposal: max 2 points ○ Proposal feasibility: 1 point	Up to 10 points
Statement of Research Interest		Up to 1 point
Scientific publications		Up to 9 points
Reference Letters		Up to 3 points
Other Academic qualifications	– Second level Master's degree and Specialization: 3 points – First level Master's degree and / or Advanced training and / or specialization and / or Higher Education course: 1 point	Up to 3 points
Other experiences		Up to 3 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intended to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course	○ Ability to argument the project proposal: up to 30 points ○ Discussion of the critical points of the project: up to 18 points ○ Ability to provide an adequate scientific context to the project proposal: up to 15 points ○ Ability to mitigate risks deriving from unexpected results: up to 10 points ○ Knowledge of the English language: up to 7 points	Up to 75 points

SCHEDULE OF THE ADMISSION EXAMS


ORAL EXAM	DATE	14 September 2022 (with possible extension to 15 September 2022)
	TIME	09:00 AM (Italian Time)
	PLACE	Department of Medicine and Surgery BUILDING 26 – INTERNAL MEDICINE CLASSROOM Via A. Gramsci, 14 43126 PARMA - ITALY
OTHER INFORMATION		For foreign applicants it will be possible to carry out the oral exam in English. For Italian applicants it will be possible to take it in either Italian or English.

VETERINARY SCIENCES	
CYCLE	XXXVIII
COORDINATOR	Prof. Gaetano DONOFRIO email: gaetano.donofrio@unipr.it Department of Veterinary Science
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> • Pathological Sciences • Clinical Sciences • Basic Sciences • Animal Production Sciences and Technologies • Food inspection and Public Health 	
TRAINING OBJECTIVES	
<p>Veterinary Science Doctoral course aims at training PhD-students about research topics on basic, pre-clinical, clinical and nonclinical areas (animal production and food inspection) by novel methodology and technology. PhD student chooses to develop his/her own research project under the supervision of a Tutor and to produce scientific outcomes in the following area: VET,AGR and BIO.</p>	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – "Laurea Magistrale" LM-42 Veterinary Medicine – "Laurea Magistrale" LM-6 Biology – "Laurea Magistrale" LM-9 Medical Biotechnology, Veterinary and Pharmaceutica – "Laurea Magistrale" LM-86 Zootechnical Sciences and Animal Technologies <p>as well as the equivalent "laurea specialistica" or "laurea" achieved based on the university system in force before the entry into force of Italian Ministerial Decree No. 509/99</p> <ul style="list-style-type: none"> – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral programs <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>

POSITIONS PUT OUT TO COMPETITION	6	With Scholarship	5
		Reserved to holders of Research Grant	1
Position with Scholarship			
N°	Funding entity		Research Topic, if any
3	Scholarship funded by University of Parma (Ministerial funds)		---
1	Scholarship co-funded by Fondazione Cariparma "CARLO GABBI"		---

Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 7 “PNRR Research”) 	<ul style="list-style-type: none"> Development of calibration equations for mobile NIRS devices for the rapid nutritional and economic evaluation of forages in the production phase, aimed at their sustainable allocation within the livestock.
Position reserved to HOLDERS OF RESEARCH GRANT		
N°	Subject area of the research	
1	Digital spatial profiling and single cell in situ classification on normal and fibrotic mouse lung parenchyma	

ADMISSION PROCEDURES

Assessment of QUALIFICATIONS: up to 40 points
ORAL EXAM: up to 80 points
Minimum score for ELIGIBILITY: 70/120

Foreign Language

Language the fluency of which shall be assessed during the Oral Exam: **ENGLISH**.
The evaluation of the knowledge of this language will be oral and will consist in translation and comprehension of a scientific text.

**APPLICANTS ADMITTED TO THE ORAL EXAM CAN TAKE IT EITHER IN PRESENCE
OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE**

(Applicants who intend to take the Oral Exam remotely must submit a formal request, using the form attached to the competition notice)

THE INTERVIEW MAY BE HELD ALSO IN ENGLISH

LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT

MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION

ANNEX A

(art. 5 of the Competition notice)

Identification Document

Scanned Copy of a valid identity document with photo (i.e. identity card, passport)

Curriculum Vitae et studiorum

No specific CV format is required (see art. 4 of the Competition notice)

Abstract of degree thesis

Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)

Qualifications

Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice):
University that granted the degree - Type of degree (first cycle/second cycle/single cycle)
Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).

Research Project	<p>Written in Italian or in English, according to the format attached to the competition notice, it will have to focus on an original research topic (unpublished, developed personally by the candidate. It should be noted that the Examination Board can use of IT tools useful for verifying the originality of the submitted Project).</p> <p><u>It does not represent a constraint with respect to the following choice of the doctoral thesis, that shall be defined together with the supervisor and approved by the Academic Board.</u></p>	
<p>FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)</p>		
Statement of Research interest	Short text – maximum 2 pages – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests	
Scientific Publications	Articles published in journals indexed in databases Wos and Scopus	
Reference Letters	<p>A maximum of 2 written by professors or researchers at the University of origin of the candidate or from other universities or from experts in the research areas working in public or private research facilities</p> <p>They must be sent directly by the signer to the address e-mail: gaetano.donofrio@unipr.it (The candidate, therefore, must not uploading them through the procedure of the competition online registration).</p>	
Other qualifications	in subjects consistent with the research topics of the PhD program	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	<p>Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.</p> <p>The marks of the exams and the graduation mark will be the most relevant element of the evaluation.</p>	Up to 2 points
Graduation mark	<p>Score related to the final mark:</p> <ul style="list-style-type: none"> - 110 with honours (magna cum laude): 3 points; - 110: 2 points; - From 100 to 109: 0.1 points for each mark unit 	Up to 3 points
Average of the exam marks (if the candidate will attain the degree no later than 24 October 2022)	<p>Score related to the average of the exam marks:</p> <ul style="list-style-type: none"> - 30/30: 3 points; - From 26/30 to 29/30: 2 points; - From 22/30 to 25/30: 1 point; - From 18/30 to 21/30: 0.5 points 	Up to 3 points
Graduation thesis	Congruence with the research topics of the PhD course and quality of the research methodology	Up to 5 points
Research Project	<p>It will be evaluated:</p> <ul style="list-style-type: none"> ○ Scientific value and originality of the proposal ○ description and structure of the proposal ○ proposal feasibility ○ consistency with the research themes of the PhD course 	Up to 10 points
Statement of Research Interest	Short text – maximum 2 pages – in Italian or in English	Up to 5 points
Scientific publications	Articles published in journals indexed in databases Wos and Scopus	Up to 5 points





Reference Letters	A maximum 2 letters	Up to 5 points
Other qualifications	in subjects consistent with the research topics of the PhD program	Up to 5 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intended to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course		Up to 80 points
SCHEDULE OF THE ADMISSION EXAMS		
ORAL EXAM	DATE	20 September 2022 (with possible extension in the following days)
	TIME	10:00 AM (Italian Time)
	PLACE	ROOM "L" Department of Veterinary Science Via del Taglio, 10 43126 PARMA - ITALY
OTHER INFORMATION	For foreign candidates, the admission examinations may be held in English at the candidate's choice.	

INFORMATION TECHNOLOGIES

CYCLE	XXXVIII
COORDINATOR	Prof. Marco LOCATELLI email: marco.locatelli@unipr.it Department of Engineering and Architecture
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/11/2022
RESEARCH TOPICS (The candidate MUST mandatorily indicate one research topic in the form ANNEX A and submit a RESEARCH PROJECT in the relevant field)	
<ul style="list-style-type: none"> • Electronics instrumentation and electrical drives • Computer systems and automatic control • Telecommunications and electromagnetic fields 	
TRAINING OBJECTIVES	
The course aims at educating the future Ph.D.'s so that they will enter the research world with an active role, within both universities and industries.	
ADMISSION REQUIREMENTS	<p>Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:</p> <ul style="list-style-type: none"> – Laurea specialistica or Laurea magistrale (second cycle master's degree) – Laurea Vecchio Ordinamento (degree obtained under the previous Italian regulations); – Second cycle Master's degree obtained abroad, equivalent to the above mentioned Italian degrees and recognized as suitable for the admission to doctoral program <p>Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree within the deadline set for enrollment, that is by 24.10.2022</p>

POSITIONS PUT OUT TO COMPETITION	14	With Scholarship	11
		Reserved to holders of Research Grant	1
		Reserved to holders of scholarship funded by foreign States	1
		Reserved for employees of companies or public institutes and research centers engaged in highly qualified activities	1
Position with Scholarship			
N°	Funding entity	Research Topic, if any	
3	Scholarship funded by University of Parma (Ministerial funds)	---	
1	Scholarship co-funded by Fondazione Cariparma	---	
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)			

During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.

N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of . Engineering and Architecture	<ul style="list-style-type: none"> Study and implementation of control systems for collaborative robots
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of . Engineering and Architecture	<ul style="list-style-type: none"> Development and implementation of machine learning techniques for the online monitoring of optical communication links
1	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 7 “PNRR Research”) 	<ul style="list-style-type: none"> Study and development of underwater communication systems based on visible light communication technology: channel modeling, performance evaluation in typical 6G scenarios, integration with terrestrial, wireless, and satellite networks
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company LAUMAS Elettronica S.r.l. 	<ul style="list-style-type: none"> Development and implementation of advanced signal processing algorithms for the design of embedded systems based on microcontrollers or programmable logic devices, for load cells with high dynamic performance
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company eDriveLAB S.r.l. 	<ul style="list-style-type: none"> Smart Converters for Hybrid and Electric propulsion and generation in Marine Applications (SCHEMA), with sensorless control and virtual sensing
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company LOGOS S.r.l. 	<ul style="list-style-type: none"> Machine Learning methods for early detection of anomalies in industrial machines and plants
1	Scholarship co-financed with funds under the PNRR - Mission 4 component 2 (Ministerial Decree 352/2022) and co-financed by the Company STMicroelectronics S.r.l. 	<ul style="list-style-type: none"> Design of ultra-low power analog and RF integrated circuits in CMOS technologies (bulk and FD-SOI) for IoT application

Position reserved to HOLDERS OF RESEARCH GRANT

N°	Subject area of the research
1	Academic discipline ING-INF/05 “Information processing systems” Research title: Deep learning and generative models for sustainable and ecological agriculture

Position reserved to HOLDERS OF SCHOLARSHIP FUNDED BY FOREIGN STATES

N°	University or Foreign State
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1	Reserved to holders of Qatar
Position reserved for EMPLOYEES of companies or public institutes and research centers engaged in highly qualified activities	
N°	<i>Company/Institution</i>
1	Reserved to employees of company Maps S.p.A.

ADMISSION PROCEDURES	Assessment of QUALIFICATIONS: up to 70 points (a minimum score of 30 points shall be required to be admitted to the Oral Exam) ORAL EXAM: up to 50 points Minimum score for ELIGIBILITY: 70/120
Foreign Language	Language the fluency of which shall be assessed during the Oral Exam: ENGLISH . The evaluation of the knowledge of this language will be oral and will consist of a brief interview on a technical topic (for example a translation of a scientific text).
CANDIDATES ADMITTED TO THE ORAL TEXT CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE (Candidates who intend to take the Oral Exam remotely must submit request, to this purpose, as per the model attached to the competition notice)	
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH	
LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT	
MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION	
ANNEX A	(art. 5 of the Competition notice)
Identification Document	Scanned Copy of a valid identity document with photo (i.e. identity card, passport)
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)
Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).
Research Project	Max 10.000 characters, written in English, it will have to focus on an original research topic and structured as follows: introduction of the problem in the scientific context, significance of the problem, expected results, argumentation. <u>It does not represent a constraint with respect to the following choice of the doctoral thesis, that shall be defined together with the supervisor and approved by the Academic Board.</u> However, this project must be prepared after having contacted and consulted one of the research groups related to the PhD course in Information Technologies (information on the research groups and their contacts can be found at https://dia.unipr.it/en/node/3080). Failure to submit the project will result in exclusion from procedure for admission to the course.
FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT (only qualifications attested by a document drawn up in Italian or in English)	

Scientific Publications	Articles on national and international journals, papers presented at conferences or symposia, book chapters etc.	
Reference Letters	Maximum 2 letters and must be sent directly by the signer to the address e-mail: marco.locatelli@unipr.it (The candidate, therefore, must not upload them through the procedure of the competition online registration)	
Other experiences (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> – Periods of study abroad, outside the country of origin (e.g., Erasmus programme or other similar mobility programmes) – Other qualifications attesting the suitability of the applicants (scholarships, awards, etc.) 	
EVALUATION CRITERIA		
QUALIFICATION	EVALUTATION CRITERIA	POINTS
Curriculum Vitae et studiorum	<p>Evaluation of the marks of the exams and of the master's degree mark (if available). The candidate is required to provide the average of the marks of all the exams of the master's degree, in addition to the details of the same</p> <p>It will also be evaluated the congruence of the degree obtained with the PhD themes.</p>	Up to 25 points
Abstract of the Master's degree thesis	It will be evaluated the congruence of the Master's Degree thesis with the doctoral program research topics	Up to 5 points
Research Project	<p>Points relating to the research project shall be allocated on the basis of the following criteria:</p> <ul style="list-style-type: none"> ○ Scientific value and originality of the proposal: max 10 points ○ description and structure of the proposal: max 10 points ○ proposal feasibility: max 10 points 	Up to 30 points
Scientific publications	Evaluation of the editorial position of the publication and its impact on the scientific community on the basis of the available indicators. It will be evaluated only publications from the past five years.	Up to 5 points
Reference Letters	Evaluation of the judgments reported in the reference letters.	Up to 2 points
Other experiences	Duration evaluation (for scholarships and internships), score (for the GRE test), prestige (for awards)	Up to 3 points
ORAL EXAM	EVALUATION CRITERIA	POINTS
The ORAL EXAM includes the presentation of the research project and is intend to assess the suitability of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD course	<ul style="list-style-type: none"> ○ knowledge of the foreign language: max 5 points ○ research project presentation: max 25 points ○ general knowledge of issues connected to the PhD course: max 20 points 	Up to 50 points
SCHEDULE OF THE ADMISSION EXAMS		

ORAL EXAM	DATE	15 September 2022 (with possible extension in the following days)
	TIME	10.30 AM (Italian Time)
	PLACE	Department of Engineering and Architecture Scientific Engineering Headquarters Parco Area delle Scienze, 181/A – Campus Universitario 43124 PARMA - ITALY
OTHER INFORMATION		For foreign candidates, the admission examinations may be held in English at the candidate's choice. For foreign candidates all documents written in a language other than Italian will have to be translated into English, otherwise they will not be evaluated