

ECONOMICS & MANAGEMENT OF INNOVATION AND SUSTAINABILITY (EMIS)

CYCLE	XXXIX
COORDINATOR	Prof.ssa Beatrice LUCERI Department of Economics and Management email: Beatrice.luceri@unipr.it
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/01/2024
PARTNER INSTITUTION	<ul style="list-style-type: none"> University of Ferrara University Cattolica del Sacro Cuore
TRAINING OBJECTIVES	
<p>The PhD program is organized to educate scholars who will be able to apply analytical and computational tools to functional data for making complex decisions in economics and management. Participants can approach the doctoral research project either from the economic theory perspective or the business theory perspective, embracing the precipitous fields of study of the theoretical framework of reference: business administration, economics and business management, business organization, political economics, economic policy, public economics, applied economics, corporate finance, and economics of financial intermediaries, as well as the methods supporting the economic and business disciplines.</p> <p>The learning objectives are achieved by integrating - as a particular specificity of the PhD program - economics, management and mathematical-statistical tools. The knowledge and skills learned enable a fruitful employability in academia or in companies or public administrations and international institutions in high skilled occupations in the regional, Italian and European job markets.</p> <p>The PhD program offer both an interdisciplinary foundation and a cultural background suited to address the methodology of the research topic investigated, to identify an original research perspective and to develop an original PdD thesis that contributes to the advancement of knowledge. These outcomes are achieved by structuring the PhD program as follows:</p> <ul style="list-style-type: none"> - Year 1, foundations of scientific research and shaping of the PhD research project; - Year 2, development of the PhD thesis, by conducting research activities and eventually spending a period abroad at qualified universities/research institutes; - Year 3, completion of the Phd thesis by conducting research activities and presenting results to academic conferences. <p>The first year of the Ph.D. aims to provide all the knowledge and skills necessary for appropriately designing the research project. Research foundation courses are organized according to three pillars: Theories, Methods and Applications. The Theories pillar includes the theoretical courses in Micro-Macroeconomics and Management Theories. The Methods pillar includes courses in literature analysis, research design, quantitative and qualitative research techniques, and qualitative and quantitative data analysis tools. The Applications pillar is declined according to the teaching needs of PhD students through lectures and seminars consistent with the research topic investigated. Other activities, including courses aimed at the development of soft skills, language skills and computer skills, complete the training. Strongly recommended is a period of study abroad, starting in the second year of the PhD program, so that students can learn advanced research techniques and/or address emerging research issues with respect to the research topic investigated.</p>	
RESEARCH AREAS (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"> • Branding and value creation • Consumer behavior and marketing management • Determination and communication of value in businesses • Knowledge economy, organization, human capital and labour • Environmental and natural resources economics • Economics and public management • Economics and industrial policies: innovation, productivity, growth and convergence 	

- Finance and risk management
- Health care and health management
- Performance evaluation, balance analysis and business management auditing
- Entrepreneurship and business strategy
- Policies and economics for agri-food.
- Intangible resources and management systems, financial and non-financial assessment and reporting
- Economic decisions in uncertain contexts
- Another research topic

ADMISSION REQUIREMENTS

Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission:

- 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

Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree by **31.12.2023**

POSITIONS PUT OUT TO COMPETITION

2

With Scholarship


2

Position with Scholarship

N°	Funding entity	Research Topic, if any
2	Scholarship funded by University of Parma (Ministerial funds)	---

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

N°	Funding entity	BOUND RESEARCH TOPIC
1	<p>Scholarship funded by EMILIA ROMAGNA REGION</p>  <p><i>The assignment of this scholarship is subject to the declaration of residence or domicile of the beneficiary in Emilia-Romagna</i> CUP F71J23000130009</p>	<p>TALENTO: what are the most in-demand skills on the labour market? New analytical approach, data mining and policy implications</p> <p>What skills do employers seek in new employees? This is a central question to understand and identify policy implications not only for industrial development, but also for the education system. Employers increasingly reach job seekers through online job postings, particularly for jobs requiring a higher education qualification (OECD, 2020). Job postings available online provide a rich source of real-time and detailed data on the qualifications and skills sought by employers across industries, occupations, and locations. For those reasons, the UNESCO Chair "Education, Growth and Equality" proposes the development of TALENTO, an original big-dataset of on-line Job Posting in Italy enabling new analytical approaches and data mining methods to understand what the most in-demand skills on the current labour market are. The research aims to explore both the content of new-demanded professional profiles, and the geographical distribution of this demand across regions, counties and municipalities. We believe that Job posting data may hold promise to complement existing labour market information systems and aid educators and policy makers in aligning labour demand and educational offerings. If analysed and disseminated effectively, such data could also assist</p>

		<p>students and workers in making learning and career decisions, for instance by identifying opportunities to build their own non-traditional path into high-demand occupations.</p> <p>Following a macroeconomic point of view, the results of the research may have a strong impact in understanding structural change and economic dynamics, focusing on skills and Competences for sustainable development.</p> <p>Scientific supervisors: Proff. Sandrine Labory e Patrizio Bianchi</p>
2	<p>Scholarship funded by EMILIA ROMAGNA REGION</p>  <p>The assignment of this scholarship is subject to the declaration of residence or domicile of the beneficiary in Emilia-Romagna CUP F71J23000130009</p>	<p>MAiDAs: Marginal Areas in Developed Areas. Analysis, sustainability, and industrial development for the future</p> <p>The Po River basin, with its tributaries, represents the heart of the large area between the Alps and the Apennines, certainly the richest and most developed part of our country. However, the municipalities that line its banks, from Monviso to Taglio di Po, have over time become a kind of inland area, squeezed between the Milan-Venice axis and the Milan-Bologna axis, which today represent the dominant axes of national economic development (UNESCO Chair data, 2022). Such municipalities can be called MAiDAs, or Marginal Areas in Developed Areas, and constitute the analytical unit of the proposed study.</p> <p>The research is supported by the UNESCO Chair in Education, Growth and Equality at the University of Ferrara. Through the analysis, the aim is to explore the economic and social conditions of the municipalities that line the banks of the Po River up to the great Delta. The starting point will be an exploratory comparative analysis at the international level, in order to identify areas and territories characterized by similar conditions. Subsequent, the line of research will focus on current state assessment, current data analysis and the prospect of future scenarios. The final aim is to trace paths of development which are not only environmentally, economically and socially sustainable, but also able to generate conditions for reversing the repeatedly reported trend of depopulation and abandonment.</p> <p>Scientific supervisors: Proff. Sandrine Labory e Patrizio Bianchi</p>

ADMISSION PROCEDURES

Assessment of QUALIFICATIONS: up to 75 points
(a minimum score of 50 points shall be required to be admitted to the Oral Exam)

ORAL EXAM: up to 45 points

Minimum score for ELIGIBILITY: 70/120

Foreign Language	Language the fluency of which shall be assessed during the Oral Exam The evaluation of the knowledge of this language will be oral and will consist in presenting a part of the research project in English	ENGLISH
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ORAL EXAMINATION INDICATION

THE ORAL EXAM TAKES IN THE PRESENCE and with the possibility of carrying out the interview **REMOTELY** for candidates residing abroad or temporarily abroad for study / work. 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)	
Academic 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, max around 8,000 characters (bibliography and spacing included). It will have to focus on an original research topic (unpublished, developed personally by the candidate, PENALTY NOT EVALUATION. 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> , which will be assigned by the Academic Board	
LIST OF EVALUABLE QUALIFICATIONS (only qualifications attested by a document drawn up in Italian or in English)		
Curriculum Vitae et studiorum	Score related to the final mark or to the average of the exam marks for graduands.	Up to 12 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	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 6 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
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
ORAL EXAM		
Interview Program	Evaluation CRITERIA	POINTS

<p>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</p>	<ul style="list-style-type: none"> ○ knowledge of the foreign language: max 10 points ○ research project presentation: max 35 points 	<p>Up to 45 points</p>
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SCHEDULE OF THE ADMISSION EXAMS

It is the candidate's responsibility to verify the outcome of the evaluation of qualifications, which can be consulted in their reserved area by connecting to the page <http://unipr.esse3.cineca.it/Home.do> in the days preceding the date of the Oral Exam.

ORAL EXAM	DATE	24 November 2023
	TIME	09:00 AM (Italian Time)
	PLACE	ROOM M Department of Economics and Management Via J.F. Kennedy, 6 43125 PARMA - ITALY
ALTRE INDICAZIONI		<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. <u>The PhD research topic will be assigned by the Academic Board.</u></p> <p>For foreign candidates, the admission examinations may be held in English at the candidate's choice.</p>

PHYSICS

CYCLE	XXXIX
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	01/01/2024
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>	
RESEARCH AREAS (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"> Quantitative aspects of Single Molecule fluorescence Microscopy and Spectroscopy 	
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 by 31.12.2023</p>

POSITIONS PUT OUT TO COMPETITION		1
With Scholarship		1
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)		
N°	Funding entity	BOUND RESEARCH TOPIC
1	Funded by IIT – Istituto Italiano di Tecnologia	Quantitative aspects of Single Molecule fluorescence Microscopy and Spectroscopy

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
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ORAL EXAMINATION INDICATION

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.
Academic 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 <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)

Other qualifications	Any other document certifying the applicant's training and abilities. Publications, awards, presentations to scientific meeting, stages, fellowships, reference letters, etc
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LIST OF EVALUABLE QUALIFICATIONS

(only qualifications attested by a document drawn up in Italian or in English)

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		
Interview Program	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

It is the candidate's responsibility to verify the outcome of the evaluation of qualifications, which can be consulted in their reserved area by connecting to the page <http://unipr.esse3.cineca.it/Home.do> in the days preceding the date of the Oral Exam.

ORAL EXAM	DATE	22 November 2023 (with possible extension in the following days)
	TIME	09:00 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
ALTRE INDICAZIONI		<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	XXXIX
COORDINATOR	Prof. Andrea SPAGNOLI email: andrea.spagnoli@unipr.it Department of Engineering and Architecture
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/01/2024
TRAINING OBJECTIVES	
To develop specialized skills in the following fields:	
<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. 	
RESEARCH AREAS OF THE DOCTORAL COURSE (the candidate MUST mandatorily select one research area in the ANNEX A and present a research project in the selected area)	
<ul style="list-style-type: none"> • Infrastructure and Environmental Engineering • Structural and Geotechnical Engineering • Architecture and Urban Planning 	
ADMISSION REQUIREMENTS	Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission: <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 Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree by 31.12.2023

POSITIONS PUT OUT TO COMPETITION		1
With Scholarship		1
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)		
N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Department of Engineering and Architecture	FAME - Floods Active Management during Emergency

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	The language for which the fluency must be assessed during the Oral Examination. The assessment of knowledge of this language will be oral and will consist in reading and translating a scientific text.	ENGLISH
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ORAL EXAMINATION INDICATION

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)
Academic 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).
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
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) related to the topics listed in https://dia.unipr.it/it/node/6470 . 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, that shall be defined together with the supervisor and approved by the Academic Board.</u>

FURTHER QUALIFICATIONS THAT MAY BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APPLICANT

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 sent directly by the signer to the address e-mail: roberto.brighenti@unipr.it . Reference letters sent directly by the candidate or received in any other way will not be evaluated.
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Scientific Publications	A maximum of 2 articles on national and international journals, papers presented at conferences or symposia, book chapters etc.	
LIST OF EVALUABLE QUALIFICATIONS (only qualifications attested by a document drawn up in Italian or in English)		
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 31st December 2023)	---	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		Up to 4 points
ORAL EXAM		
Interview Program	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 research areas related to the PhD course	<ul style="list-style-type: none"> ○ knowledge of the foreign language ○ research project presentation ○ general knowledge of research areas related to the PhD course 	Up to 50 points

SCHEDULE OF THE ADMISSION EXAMS

It is the candidate's responsibility to verify the outcome of the evaluation of qualifications, which can be consulted in their reserved area by connecting to the page <http://unipr.esse3.cineca.it/Home.do> in the days preceding the date of the Oral Exam.

ORAL EXAM	DATE	24 November 2023
	TIME	09:00 AM (Italian Time)
	PLACE	Department of Engineering and Architecture Room "MASTER" – Building 3 Parco Area delle Scienze, 181/A – Campus Universitario - 43124 PARMA
ALTRE INDICAZIONI		<p>In the application form (Annex A), the Candidate must specify a single research area (Infrastructures, Geostructures, Architecture), and on this area the Candidate must carry out the Oral Exam.</p> <p>The choice of the research area to be indicated in Annex A does not have a binding character on the subsequent choice of the PhD research topic, but has the purpose of assessing the candidates' skills during the admission exam. The PhD research topic will be agreed with the supervisor and approved by the Academic Board.</p>



The admission oral exam can also be carried out in English at the candidate's choice. If the Candidate wishes to carry out the Oral Exam in English, he/she must state a formal request in the application form (Annex A).

For Candidates who will carry out the Oral Exam in Italian, the verification of the English language knowledge will take place in oral form and will consist in the reading and translation of a scientific text.

INDUSTRIAL ENGINEERING

CYCLE	XXXIX
COORDINATOR	Prof. Gianni ROYER CARFAGNI email: gianni.royer@unipr.it Department of Engineering and Architecture
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/01/2024
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>	
RESEARCH AREAS	
<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; • Industry 4.0 and future developments. 	
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 by 31.12.2023</p>

POSITIONS PUT OUT TO COMPETITION		5
With Scholarship		4
Reserved to holders of Research Grant		1
Position with Scholarship		
N°	<i>Funding entity</i>	<i>Research Topic, if any</i>
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)		
N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholaship funded by EMILIA ROMAGNA REGION  The assignment of this scholarship is subject to the declaration of residence or domicile of the beneficiary in Emilia-Romagna CUP D92J23000030006	A knowledge-based Design for Disassembly methodology to enhance the circular economy of mechatronic products
1	Scholaship funded by EMILIA ROMAGNA REGION  The assignment of this scholarship is subject to the declaration of residence or domicile of the beneficiary in Emilia-Romagna CUP D92J23000420006	Two-phase passive systems for cooling electronic devices: development and validation of numerical models for the thermal control of electric vehicle batteries
Position reserved to HOLDERS OF RESEARCH GRANT		
N°	Subject area of the research	
1	ING-IND/17 – Industrial Mechanical Systems Engineering “Definition, validation and testing of a series of alternative conceptual circular supply chain solutions for effective recycling of textile waste from different sources”	

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	Language the fluency of which shall be assessed during the Oral Exam The evaluation of the knowledge of this language will be oral and will consist in reading and translating of a scientific text	ENGLISH
ORAL EXAMINATION INDICATION 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)	
Academic 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>	
LIST OF EVALUABLE QUALIFICATIONS (only qualifications attested by a document drawn up in Italian or in English)		
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 The marks of the exams and the graduation mark will be the most relevant element of the evaluation.	Up to 25 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 or originality of the proposal ○ description and structure of the proposal ○ proposal feasibility 	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. They must be sent directly by the signer to folder REFERENCE LETTER . The file must be named "Letter of presentation - Doctorate in Industrial Engineering" (The candidate, therefore, must not upload them through the procedure of the competition online registration)	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 (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 	Up to 3 points

	<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.) 	
ORAL EXAM		
Interview Program	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

It is the candidate's responsibility to verify the outcome of the evaluation of qualifications, which can be consulted in their reserved area by connecting to the page <http://unipr.esse3.cineca.it/Home.do> in the days preceding the date of the Oral Exam.

ORAL EXAM	DATE	22 November 2023
	TIME	09:00 AM (Italian Time)
	PLACE	Meeting Room – Building 7 Department of Engineering and Architecture Parco Area delle Scienze, 181/A - Campus 43124 PARMA - ITALY
ALTRE INDICAZIONI		<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. The PhD research topic will be assigned by the Academic Board.</p> <p>For foreign candidates, the admission examinations may be held in English at the candidate's choice.</p>

NEUROSCIENCES

CYCLE	XXXIX
COORDINATOR	Prof. Luca BONINI email: luca.bonini@unipr.it Department of Medicine and Surgery
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/01/2024
CURRICULA	1. Neuroscience
TRAINING OBJECTIVES	
<ul style="list-style-type: none"> • Provide a global and interdisciplinary view of the proposed research sectors, offering a high degree of specialization in these research fields • 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 investigated research topic 	
RESEARCH AREAS	
<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 	
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 by 31.12.2023</p>

POSITIONS PUT OUT TO COMPETITION*		4
(Modified by Rector Decree n. 2106 of 02.11.2023 and by Rector Decree n. 2160 of 13.11.2023)		
With Scholarship		3
Reserved to holders of Research Grant		1
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice) (Modified by Rector Decree n. 2106 of 02.11.2023)		
N°	Funding entity	BOUND RESEARCH TOPIC

1	Scholarship funded by Department of Medicine and Surgery (Project FARE "CIRCEM" Local circuitries and neuronal classes for emotional and social affordances processing in the freely moving monkey R20NJ7BBA7)	Analys of neuronal dynamics from multielectrode recordings in the monkey
1	Scholarship funded by Department of Medicine and Surgery (Project 2022SP5K99 PNRR-M4C2- I1.1 - PRIN 2022 "Motor resonance during action planning and social interaction: from single neurons to brain circuits" CUP D53D23009860001)	Neuroethological study of social facilitation phenomena in the monkey
1	Scholarship funded by Department of Medicine and Surgery (Project PRIN 2022-PNRR "Multimodal characterization of frontal networks involved in attentive functions CUP D53D23020620001)	Multimodal characterization of frontal networks involved in attentive functions
Position reserved to HOLDERS OF RESEARCH GRANT (Modified by Rector Decree n. 2160 of 13.11.2023)		
N°	<i>Subject area of the research</i>	
1	Integrating action observation within neurehabilitative and motor learning practies	

ADMISSION PROCEDURES

Assessment of QUALIFICATIONS: up to 40 points
(a minimum score of 20 points must be obtained 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 The evaluation of this language will be oral and will consist in the discussion of the research project presented in English.	ENGLISH
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ORAL EXAMINATION INDICATION

THE ORAL EXAM TAKES PLACE IN THE PRESENCE. (The REMOTE ORAL EXAM is allowed for candidates residing abroad or temporarily abroad for study / work. 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)

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	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 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. <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>	
LIST OF EVALUABLE QUALIFICATIONS (only qualifications attested by a document drawn up in Italian or in English)		
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 31 December 2023)	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	○ Each article in a peer-reviewed international journal: 1 point ○ Each book chapter: 0.4 points	Up to 5 points

	<ul style="list-style-type: none"> ○ abstracts/papers/posters presented at conferences or symposia: 0.3 points <p>The same categories are half valued if in Italian.</p> <p>The points of the publications are normalized for post-graduate years, that is, divided by the numbers of post-graduate years.</p>	
Other Academic qualifications	Other academic qualifications consistent with the research topics of this PhD program	Up to 3 points





MATERIALS SCIENCE AND TECHNOLOGY	
CYCLE	XXXIX
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	01/01/2024
PARTNER INSTITUTION	<ul style="list-style-type: none"> • The Italian National Research Council (C.N.R.)
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>	
RESEARCH AREAS	
<ul style="list-style-type: none"> • Photovoltaic devices • Functional materials • Nanodiagnostics • 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 • Vitrimers 	
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 by 31.12.2023</p>

POSITIONS PUT OUT TO COMPETITION*	
(Modified by Rector Decree n. 2159 of 13.11.2023)	
With Scholarship	7
Reserved to holders of Research Grant	5
Reserved to holders of scholarship within specific international mobility programs	1
	1

Position with Scholarship

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

(Modified by Rector Decree n. 2159 of 13.11.2023)

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. - ISSMC	Synthesis, characterization and modeling of thin multifunctional ceramic coatings for industrial applications
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Chemistry, Life Sciences and Environmental Sustainability (funds Project 2022285HC5 PNRR-M4C2- I1.1 - PRIN 2022 "Self-assembly of bacteria-targeting materials across the mesoscale - SAMBA") CUP D53D23010030006 	Synthesis and self-assembly of organic materials for the detection and treatment of bacterial infections.
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Chemistry, Life Sciences and Environmental Sustainability (funds Project 2022FPY22N PNRR-M4C2- I1.1 - PRIN 2022 "CRISPR-Cas-based sensing platforms for the monitoring of clinically relevant antibodies - CRISPR-ABS") CUP D53D23009090001 	Biomolecular sensors harnessing synthetic nucleic acid systems and CRISPR-Cas technologies for the detection of clinically relevant antibodies and other biomarker proteins.
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Chemistry, Life Sciences and Environmental Sustainability (funds Project 2022XZ2ZM8 PNRR-M4C2- I1.1 - PRIN 2022 "Polymorph screening to enable electron-phonon coupling engineering in organic semiconductors - POLYPHON") CUP D53D23009240006 	Structural and spectroscopic study of advanced semiconducting materials
1	Scholarship funded by Department of Department of Chemistry, Life Sciences and Environmental Sustainability (Project PRIN 2022-PNRR "Sustainable-by-design PLA vitrimers (PLA-VIT)" CUP D53D23017000001) 	Polylactic acid vitrimers

Position reserved to HOLDERS OF RESEARCH GRANT

N°	Subject area of the research
1	IMEM-CNR Istituto dei Materiali per l'Elettronica ed il Magnetismo FIS/03 "Advanced in-operando studies of technologically scalable 2D materials during device operation" codice CUP B53D23004010006

Reserved to HOLDERS OF SCHOLARSHIP WITHIN SPECIFIC INTERNATIONAL MOBILITY PROGRAMS

N°	Agreements/Cooperations/Mobility Programs
1	Reserved to holders under the mobility program Project UE HORIZON-MSCA-2022-DN-01-01 n. 101119852 - Heat4Energy "Magnetic Materials and Machines for Heat Recovery"

ADMISSION PROCEDURES

<p>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</p>		
Foreign Language	Language the fluency of which shall be assessed during the Oral Exam The evaluation of the knowledge of this language will be oral and will consist in translating of a scientific text.	ENGLISH
<p>ORAL EXAMINATION INDICATION</p>		
<p>THE ORAL EXAM TAKES IN THE PRESENCE and with the possibility of carrying out the interview REMOTELY for candidates residing abroad or temporarily abroad for study / work reasons. To this end, candidates must submit 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. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)	
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>	
<p style="text-align: center;">LIST OF EVALUABLE QUALIFICATIONS (only qualifications attested by a document drawn up in Italian or in English)</p>		
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 31 December 2023)	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 program and at describing her/his 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		
Interview Program	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


It is the candidate's responsibility to verify the outcome of the evaluation of qualifications, which can be consulted in their reserved area by connecting to the page <http://unipr.esse3.cineca.it/Home.do> in the days preceding the date of the Oral Exam.

ORAL EXAM	DATE	22 November 2023
	TIME	09:30 AM (Italian Time)
	PLACE	Department of Chemistry, Life Sciences and Environmental Sustainability CHEMISTRY BUILDING Parco Area delle Scienze, 17/A – Campus 43124 PARMA - ITALY
ALTRE INDICAZIONI	<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. <u>The PhD research topic will be assigned by the Academic Board.</u></p> <p>For foreign candidates, the admission examinations may be held in English at the candidate's choice.</p>	

CHEMICAL SCIENCES

CYCLE	XXXIX
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	01/01/2024
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>	
RESEARCH AREAS	
<ul style="list-style-type: none"> • Analytical Chemistry • General and Inorganic Chemistry • Physical Chemistry • Industrial Chemistry • Organic Chemistry 	
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 by 31.12.2023</p>

POSITIONS PUT OUT TO COMPETITION		2
With Scholarship		2
Position with Scholarship		
N°	<i>Funding entity</i>	<i>Research Topic, if any</i>
1	Scholarship funded by University of Parma (Ministerial funds)	Development of bioorthogonal methodologies for the realization of link-and-release systems and their application to supramolecular protein realization
1	Scholarship funded by University of Parma (Ministerial funds e University funds) and co-financed by the Department of Chemistry, Life Sciences and	Multi-sensor platforms for the simultaneous determination of allergens for food safety

<p>Environmental Sustainability (Project: PNRR - M4C2 -I. 1.3- Avviso MUR 341/2022“ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods” (PE00000003) CUP D93C22000890001)</p>	
	

ADMISSION PROCEDURES

Assessment of QUALIFICATIONS: up to 40 points
(a minimum score of 20 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 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.	ENGLISH
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ORAL EXAMINATION INDICATION

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 DOCUMENT, PENALTY NOT EVALUATION, S 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)
Academic 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 (maximum 2 pages). 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>

LIST OF EVALUABLE QUALIFICATIONS

(only qualifications attested by a document drawn up in Italian or in English)

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. 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 31 December 2023)	Assignment of a score related to the final mark or, for candidates who will attain the degree by 31 October 2023, 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	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. Motivation and competence proved in the text presented	Up to 3 points
Scientific Publications	Articles on national and international journals, papers presented at conferences or symposia, book chapters etc Impact and relevance of the qualifications presented related to Chemical Sciences	Up to 4 points
ORAL EXAM		
Interview Program	Evaluation CRITERIA	POINTS
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.	<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

It is the candidate's responsibility to verify the outcome of the evaluation of qualifications, which can be consulted in their reserved area by connecting to the page <http://unipr.esse3.cineca.it/Home.do> in the days preceding the date of the Oral Exam.

ORAL EXAM	DATE	21 November 2023 (with possible extension in the following days)
	TIME	10:00 AM (Italian Time)
	PLACE	Department of Chemistry, Life Sciences and Environmental Sustainability CHEMISTRY BUILDING Parco Area delle Scienze, 17/A – Campus 43124 PARMA - ITALY

ALTRE INDICAZIONI

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. The PhD research topic will be assigned by the Academic Board.

It is possible to carry out the admission examination in Italian or in English at the candidate's choice.

FOOD SCIENCE

CYCLE	XXXIX
COORDINATOR	Prof.ssa Chiara DALL'ASTA Food and Drug Department email: chiara.dallasta@unipr.it
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/01/2024
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.	
RESEARCH AREAS	
<ul style="list-style-type: none"> Turning food waste into sustainable soil improvers for better soil health and improved food systems 	
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 by 31.12.2023</p>

POSITIONS PUT OUT TO COMPETITION		1
With Scholarship		1
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)		
N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship funded by Food and Drug Department (Project TEDE_T_22HORIZONEU_WASTE4SOIL_01 CUP D93C23000300006)	Turning food waste into sustainable soil improvers for better soil health and improved food systems

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

	For foreign candidates, basic knowledge of ITALIAN LANGUAGE will also be assessed.	
ORAL EXAMINATION INDICATION: Applicants admitted to the ORAL EXAM can take it in PRESENCE. 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)	
Academic 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 2 pages, be written 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, PENALTY NOT EVALUATION. It should be noted that the Examination Board can use of IT 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. <u>It does not represent a constraint with respect to the following choice of the doctoral thesis</u> , which will be assigned by the Academic Board	
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	
LIST OF EVALUABLE QUALIFICATIONS (only qualifications attested by a document drawn up in Italian or in English)		
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 and the consistency of the Master's Degree thesis with the doctoral program research topics will be the most relevant element of the evaluation.	Up to 20 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 or originality of the proposal: max 10 points ○ description and structure of the proposal: max 5 points ○ proposal feasibility: max 5 points 	Up to 20 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 2 points
Scientific Publications	Articles and/or reviews in scientific journals with peer reviewing, scientific book chapters with national or international circulation. The explicit indication of the candidate's contribution to the works presented for evaluation is a necessary requirement. International peer-reviewed papers: up to 2 points National peer-reviewed papers: up to 1 point	Up to 3 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 (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> – Language proficiency certificates – Periods of study abroad, outside th 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		
Interview Program	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"> ○ English reading and speaking and for foreign candidates also Italian language: up to 10 points ○ research project presentation: max 40 points ○ general knowledge of issues connected to the PhD course: max 20 points 	Up to 70 points

SCHEDULE OF THE ADMISSION EXAMS

It is the candidate's responsibility to verify the outcome of the evaluation of qualifications, which can be consulted in their reserved area by connecting to the page <http://unipr.esse3.cineca.it/Home.do> in the days preceding the date of the Oral Exam.

ORAL EXAM	DATE	21 November 2023
	TIME	02:00 PM (Italian Time)
	PLACE	ROOM D Plexus "Aule delle Scienze" Campus Universitario 43124 PARMA - ITALY

ALTRE INDICAZIONI

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. The PhD research topic will be assigned by the Academic Board.


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.

For foreign candidates it is possible to carry out the admission examination exclusively in English. For Italian candidates it will be possible to take the admission examination in Italian or in English at the candidate's choice

For foreign candidates, the Oral Exam may be held in English at the candidate's choice.

DRUG SCIENCES

CYCLE	XXXIX
COORDINATOR	Prof. Marco MOR email: marco.mor@unipr.it Food and Drug Department
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/01/2024
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>	
RESEARCH AREAS	
<ul style="list-style-type: none"> • Biopharmaceutics – Pharmacokinetics 	
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 by 31.12.2023</p>

POSITIONS PUT OUT TO COMPETITION		1
With Scholarship		1
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)		
N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship funded by Department of Chemistry, Life Sciences and Environmental Sustainability (Project PRIN 2022-PNRR "Vesicles investigation through advanced spectroscopic and microscopic techniques for ocular drug delivery" – VISIO cod. CUP D53D23016790001)	Nanocarriers for ocular drug delivery
		

ADMISSION PROCEDURES

Assessment of QUALIFICATIONS: up to 50 points
(a minimum score of 30 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 The evaluation of the knowledge of this language will be oral and will consist in reading and translating of a scientific text.	ENGLISH
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ORAL EXAMINATION INDICATION: Applicants admitted to the ORAL EXAM can take it **in PRESENCE**.

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)	
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):</p> <p>University that granted the degree - Type of degree (first cycle/second cycle/single cycle)</p> <p>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 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.</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>	

LIST OF EVALUABLE QUALIFICATIONS

(only qualifications attested by a document drawn up in Italian or in English)

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		
Interview Program	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 argumentation: max 30 points ○ general knowledge of issues connected to the PhD course: max 30 points 	Up to 70 points

SCHEDULE OF THE ADMISSION EXAMS

It is the candidate's responsibility to verify the outcome of the evaluation of qualifications, which can be consulted in their reserved area by connecting to the page <http://unipr.esse3.cineca.it/Home.do> in the days preceding the date of the Oral Exam.

ORAL EXAM	DATE	24 November 2023
	TIME	09:00 AM (Italian Time)
	PLACE	Food and Drug Department Parco Area delle Scienze, 27/A 43124 PARMA - ITALY
ALTRE INDICAZIONI		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. The PhD research topic will be assigned by the Academic Board.

EARTH SCIENCES

CYCLE	XXXIX
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	01/01/2024
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	
RESEARCH AREAS	
<ul style="list-style-type: none"> • Palaeontology and Palaeoecology • Stratigraphy and Sedimentology • Structural Geology • Physical Geography and Geomorphology • Applied Geology • Mineralogy • Petrology and Petrography • Geochemistry and Volcanology • Geophysics and Applied Geophysics 	
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 Conservation and restoration of the 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 by 31.12.2023</p>

POSITIONS PUT OUT TO COMPETITION		1
With Scholarship		1
Position with Scholarship		
N°	Funding entity	Research Topic, if any
1	Scholarship funded by University of Parma (Ministerial funds)	<ul style="list-style-type: none"> • Geomorphological and geophysical modeling of debris flow source material in the Alps and in the Northern Apennines

	<ul style="list-style-type: none"> • The late Miocene Sicilian outer foreland basin evolution and its implications with the Messinian salinity crisis • Origin of refractory domains in the convective mantle: new insights from geochemical and Sr-Nd-Hf-Os isotope study of peridotites from modern oceanic basins • Hydrogeological role of carbonate fault zones on regional flow system in Central-Southern Apennines, Italy • Coseismic and aseismic fault rocks in volcanic bodies
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ADMISSION PROCEDURES

Assessment of QUALIFICATIONS: up to 50 points
(a minimum score of 30 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 The assessment of knowledge of this language will be oral and will consist in reading and translating a paragraph of scientific text.	ENGLISH
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ORAL EXAMINATION INDICATION

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)
Academic 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	Maximum 3 pages, 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, PENALTY NOT EVALUATION. 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>

LIST OF EVALUABLE QUALIFICATIONS

(only qualifications attested by a document drawn up in Italian or in English)

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 6 points
Graduation thesis	Congruence with the research topics of the PhD course and quality of the research methodology	Up to 8 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 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 points
Graduation mark	Score related to the final mark: <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 31 December 2023)	Score related to the average of the exam marks: <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
Scientific Publications	<ul style="list-style-type: none"> ○ Abstract presented at a national or international congress: 0,5 point ○ 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 (training, work, research, teaching, etc.)	<ul style="list-style-type: none"> ○ Periods of study abroad: 1 point ○ Scholarships, scientific associations awards: 1 point 	Up to 2 points
ORAL EXAM		
Interview Program	Evaluation CRITERIA	POINTS

<p>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</p>	<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 	<p>Up to 70 points</p>
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SCHEDULE OF THE ADMISSION EXAMS

It is the candidate's responsibility to verify the outcome of the evaluation of qualifications, which can be consulted in their reserved area by connecting to the page <http://unipr.esse3.cineca.it/Home.do> in the days preceding the date of the Oral Exam.

ORAL EXAM	DATE	24 November 2023
	TIME	09:00 AM (Italian Time)
	PLACE	Department of Chemistry, Life Sciences and Environmental Sustainability EARTH SCIENCES BUILDING Parco Area delle Scienze, 157/A – Campus 43124 PARMA - ITALY
ALTRE INDICAZIONI		<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 candidate skills during the admission exam. The PhD research topic will be assigned by the Academic Board.</p> <p>For foreign candidates, the admission examinations may be held in English at the candidate's choice.</p>






TRASLATIONAL MEDICAL AND SURGICAL SCIENCES

CYCLE	XXXIX
COORDINATOR	Prof. Nicola SVERZELLATI email: nicola.sverzellati@unipr.it Department of Medicine and Surgery
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/01/2024
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>	
RESEARCH TOPICS (The applicant MUST indicate one research topic in the ANNEX A)	
<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;11. Role of qualitative and quantitative imaging in the diagnosis of neoplasms, infections and chronic degenerative diseases.	



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 by 31.12.2023</p>
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POSITIONS PUT OUT TO COMPETITION*		7
(Modified by Rector Decree n. 2106 of 02.11.2023 and by Rector Decree n. 2160 of 13.11.2023)		
With Scholarship		6
Reserved to holders of scholarship funded by foreign States		1
Position with Scholarship		
N°	Funding entity	Research Topic, if any
2	Scholarship funded by University of Parma (Ministerial funds)	---
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice) (Modified by Rector Decree n. 2106 of 02.11.2023 and by Rector Decree n. 2160 of 13.11.2023)		
N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship partly financed with UNIVERSITY funds and co-financed by the Department of Medicine and Surgery (Prof. Lauretani funds PRIN2020 CUP D95F2200042001)	Sarcopenia and motoric frailty in older persons
1	Scholarship funded by Department of Medicine and Surgery (funds Prof. Missale Project 2022STZ583 PNRR-M4C2-I1.1 - PRIN 2022 CUP D53D23001930006 e funds Prof. Ferrari FERRARI_2021_CT_AOUPR_TOSCANALIFE) 	Strategies for Natural Killer lymphocyte response enhancement in immunotherapy of hepatocellular carcinoma
1	Scholarship funded by Department of Medicine and Surgery (Project PRIN 2022-PNRR "ADVANCE - Accelerated Diagnosis and non-inVasive strategies for AN early prediCtion of malignant transformation in hEreditary cancer predisposition syndrome: from NF1-associated benign precursor lesion to Malignant Peripheral Nerve Sheath Tumor (MPNST)" cod. CUP D53D23016670001) 	Genomic analysis for the comprehension and monitoring of Mendelian and complex genetic disorders
1	Scholarship funded by Department of Medicine and Surgery (Project PRIN 2022-PNRR "Effectiveness of a tiered strategy including screening and mobile app intervention for children with symptoms of long COVID-19: a territorial-based, randomized controlled trial (R.E.C.O.V.E.R.) cod. CUP D53D23001960006) 	Long Covid in pediatric age



Position reserved to HOLDERS OF SCHOLARSHIP FUNDED BY FOREIGN STATES	
N°	University or Foreign State
1	Reserved to holders of University of Rwanda

ADMISSION PROCEDURES

ASSESSMENT OF QUALIFICATIONS: up to 45 points

ORAL EXAM: up to 75 points

MINIMUM SCORE FOR ELIGIBILITY: 70/120

Foreign Language	Language the fluency of which shall be assessed during the Oral Exam The knowledge of the English language will be assessed orally and will consist in reading and translating a scientific text	ENGLISH
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ORAL EXAMINATION INDICATION: Applicants admitted to the ORAL EXAM can take it **in PRESENCE**.

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)
Academic 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 according to the attached format, 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.

LIST OF EVALUABLE QUALIFICATIONS

(only qualifications attested by a document drawn up in Italian or in English)

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 9 points
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Graduation mark	Score assignable for 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 applicant will attain the degree no later than 31 st December 2023)	Score assignable for 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 course and quality of the research methodology	Up to 2 points
Research Project	Score assignable for the research project: <ul style="list-style-type: none"> • Scientific value and ground-breaking nature of the proposal: max 8 points • Description and structure of the proposal: max 2 points • Proposal feasibility: 1 point • Congruence with the training objectives of the PhD program: 1 point 	Up to 10 points
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.	Up to 1 point
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.	Up to 9 points
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.	Up to 3 points
Other Academic qualifications	<ul style="list-style-type: none"> • 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 (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.)	Up to 3 points
ORAL EXAM		
Interview Program	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"> • 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

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ORAL EXAM	DATE	21 November 2023
	TIME	10:00 AM (Italian Time)
	PLACE	Aula 9 c/o Aule Nuove – Polo Gramsci Via A. Gramsci 14 43126 PARMA - ITALY
ALTRE INDICAZIONI	<p>The choice of the research field to be expressed in Annex A does not have a binding nature on the assignment of the research project, but has the purpose of assessing the candidates' skills during the admission exam. <u>The PhD research topic</u> will be defined with the supervisor and approved by the Academic Board.</p> <p>For foreign applicants it will be possible to carry out the oral exam in English, whereas for Italian applicants it will be possible to take it in either Italian or English.</p>	



INFORMATION TECHNOLOGIES	
CYCLE	XXXIX
COORDINATOR	Prof. Marco LOCATELLI email: marco.locatelli@unipr.it Department of Engineering and Architecture
DURATION	3 years
STARTING DATE OF THE PHD PROGRAM	01/01/2024
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.	
RESEARCH AREAS	
<ul style="list-style-type: none">• Electronics instrumentation and electrical drives• Computer systems and automatic control• Telecommunications and electromagnetic fields	
ADMISSION REQUIREMENTS	Regardless of age and citizenship, applicants holding at least one of the following academic qualifications can apply for admission: <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 Undergraduates can also apply for admission to the selection, with the obligation to obtain the degree by 31.12.2023

POSITIONS PUT OUT TO COMPETITION*		4
(Modified by Rector Decree n. 2106 of 02.11.2023 and by Rector Decree n. 2159 of 13.11.2023)		
With Scholarship		3
Reserved to holders of Research Grant		1
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice) (Modified by Rector Decree n. 2106 of 02.11.2023 and by Rector Decree n. 2159 of 23.11.2023)		
N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship funded by EMILIA ROMAGNA REGION  <i>The assignment of this scholarship is subject to the declaration of residence or domicile of the beneficiary in Emilia-Romagna</i> CUP D92J23000420006	Wave motion hydrogen production system: WEC4Hydrogen



1	Scholarship funded by Department of Engineering and Architecture (funds Project PRIN 2022-PNRR “LiSA - Listen, See and Act: fusing audio-video cues to perceive visible and invisible events and develop perception-to-action solutions for autonomous vehicles” CUP D53D23017510001 and funds Project UE OFAV n. 228045 CUP D91J090001700)	Multimodal perception for autonomous vehicles
1	Scholarship funded by MLCommons	Design and implementation of an open-source framework for benchmark performance evaluation of low-power ML algorithms on IoT devices
Position reserved to HOLDERS OF RESEARCH GRANT (Modified by Rector Decree n. 2106 of 02.11.2023)		
N°	<i>Subject area of the research</i>	
1	ING-INF/01 – Electronic: “Electronic circuits for wireless sensors and devices”	

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	Language the fluency of which shall be assessed during the Oral Exam 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).	ENGLISH
ORAL EXAMINATION INDICATION		
THE ORAL EXAM TAKES IN THE PRESENCE and with the possibility of carrying out the interview REMOTELY for candidates residing abroad or temporarily abroad for study / work reasons. 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)	



Academic 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</u> , that shall be defined together with the supervisor and approved by the Academic Board. 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.	
LIST OF EVALUABLE QUALIFICATIONS (only qualifications attested by a document drawn up in Italian or in English)		
Curriculum Vitae et studiorum	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 It will also be evaluated the congruence of the degree obtained with the PhD themes.	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	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 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	Articles on national and international journals, papers presented at conferences or symposia, book chapters etc. 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	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). Evaluation of the judgments reported in the reference letters.	Up to 2 points
Other experiences and qualifications	<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.) Duration evaluation (for scholarships and internships), score (for the GRE test), prestige (for awards)	Up to 3 points
ORAL EXAM		
Interview Program	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: 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
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SCHEDULE OF THE ADMISSION EXAMS

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ORAL EXAM	DATE	21 November 2023 (with possible extension in the following days)
	TIME	03:00 PM (Italian Time)
	PLACE	MEETING ROOM – Building 3 Scientific Engineering Headquarters Parco Area delle Scienze, 181/A – Campus Universitario 43124 PARMA - ITALY
ALTRE INDICAZIONI	<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. <u>The PhD research topic will be assigned by the Academic Board.</u></p> <p>For foreign candidates, the admission examinations may be held in English at the candidate's choice.</p> <p>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.</p>	