

MATERIALS SCIENCE AND TECHNOLOGY		
Cycle	XXX	
Duration	3 years	
Partner Entities	The Italian The National Research Council -CNR (Istituto IMEM of Parma, Istituto IMAMOTER of Ferrara and Istituto ISTECC of Faenza)	
Supervisor	Prof. Enrico Dalcanale – Department of Chemistry E-mail: enrico.dalcanale@unipr.it	
Research Topics	<ol style="list-style-type: none"> 1) Photovoltaic devices 2) Functional materials 3) Strongly correlated systems 4) Nanodiagnosics 5) Nanostructured materials 6) Supramolecular sensors and devices 7) Semiconductive massive crystals 8) Low dimensionality semiconductive structures 9) Self-assembled polymers 10) Surface supported molecular materials 	
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.</p> <p>Enrollment is open to MS laureates in Materials Science, Chemistry, Physics, Industrial Chemistry, Engineering and Biological Sciences.</p> <p>The Board of teaching offers and organizes courses and seminars in different scientific areas, with particular focus on all aspects of materials science (synthesis, characterization, functions and devices). The PhD program offers an interdisciplinary preparation through research activity, also in collaboration with foreign Institutions.</p>	
Academic degree required	Laurea pursuant to the previous university system, laurea specialistica or laurea magistrale, or a foreign academic qualification that has been recognized as equivalent	
Positions put out to competition		
With scholarship	7	
Without scholarship	1	
Reserved to Research Fellowship arrangements	1	
TOTAL	9	
Scholarship types	No.	Description (funding entity and research topic, if any)
	2	Scholarships of the University of Parma
	1	MIUR Scholarship "Fondo Giovani" on the topic "Advanced Materials (specifically ceramic ones) for structural applications"
	1	Funded by UniCredit Banca
	3	Funded by the Italian National Research Council - CNR
Positions reserved to Research Fellowship arrangements	No.	
	1	Research Fellowship arrangements

Admission procedures	Assessment of QUALIFICATIONS: up to 50 points ORAL EXAM: up to 70 points Minimum score for ELIGIBILITY: 70/120		
Interview via teleconference for candidates residing abroad	<p style="text-align: center;">THE ORAL EXAM MAY BE HELD <u>VIA VIDEOCONFERENCE</u> FOR CANDIDATES RESIDING ABROAD. THE INTERVIEW MAY BE HELD ALSO IN ENGLISH. (the relevant request shall be submitted using the form attached to the competitive examination announcement)</p>		
List of QUALIFICATIONS to be submitted and their assessment	Graduation thesis	Abstract of the graduation thesis (mandatory qualification)	Up to 12 points
	Curriculum Vitae et studiorum	Covering the candidate's university career and postgraduate experience, accompanied with a statutory declaration in lieu of the certification of the exams sat and passed, with the relevant marks, as well as the final graduation mark (mandatory qualification)	Up to 20 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 doctorate program and at describing his/her specific research interests	Up to 10 points
	Scientific publications	Articles and reviews in scientific journals with peer reviewing, abstracts of papers or posters presented at conventions or meetings	Up to 5 points
	Reference letters	a maximum of 2 written by persons in charge of research/tutoring activities	Up to 3 points
Foreign language	Language the fluency of which shall be assessed during the Oral Exam: ENGLISH		
Schedule of the admission exam	ORAL EXAM DATE: 26 September 2014 TIME: 10:00am PLACE: IMEM CNR - Parco Area delle Scienze 37/A – 43124 PARMA, ITALY		