



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	01/11/2023
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	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 31.10.2023

		POSITIONS PUT OUT TO COMPETITION	4
		With Scholarship	4
Position with Scholarship			
N°	Funding entity	Research Topic, if any	
2	Scholarship funded by University of Parma (Ministerial funds)	<ul style="list-style-type: none"> • Multi-scale fracture pattern analysis integrating field data and digital outcrop models: implications for fracture permeability modelling in faulted subsurface reservoir • Effects of hydraulic heterogeneities on subsurface contaminant migration • Geomorphological and geophysical modeling of debris flow source material in the Alps and in the Northern Apennines • The late Miocene Sicilian outer foreland basin evolution and its implications with the Messinian salinity crisis 	
1	Scholarship funded by University of Parma (University funds)		
1	Scholarship co-funded by Fondazione Cariparma		



		<ul style="list-style-type: none"> • 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 • Study of the Cenozoic paleoclimatic transition from greenhouse to icehouse through calcareous nannofossils from the Southern Ocean. • 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		
<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 assessment of knowledge of this language will be oral and will consist in reading and translating a paragraph of scientific text.	ENGLISH
<p>ORAL EXAMINATION INDICATION</p> <p>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)</p>		
<p>THE INTERVIEW MAY BE HELD ALSO IN ENGLISH</p>		
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>Maximum 3 pages, written in Italian or in English, according to the format attached to the competition notice</p> <p>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)</p> <p><u>It does not represent a constraint with respect to the following choice of the doctoral thesis, which will be assigned by the Academic Board</u></p>	



LIST OF EVALUABLE QUALIFICATIONS (only qualifications attested by a document drawn up in Italian or in English)		
Curriculum Vitae et studiorum	<p>Including academic career and postgraduate experience, accompanied by a statutory declaration in lieu of the certification of the exams passed with the relevant marks, as well as the final graduation mark.</p> <p>The marks of the exams and the graduation mark will be the most relevant element of the evaluation.</p>	Up to 6 points
Graduation thesis	Congruence with the research topics of the PhD course and quality of the research methodology	Up to 8 points
Research Project	<p>Points relating to the research project shall be allocated on the basis of the following criteria:</p> <ul style="list-style-type: none"> ○ Scientific value and or originality of the proposal: max 8 points ○ description and structure of the proposal: max 3 points ○ proposal feasibility: max 3 points ○ consistency with the research themes of the PhD course: max 8 points 	Up to 22 points
Statement of Research Interest	Short text – maximum 1 page – in Italian or in English, aimed at explaining the candidate's reasons to attend the PhD program and at describing her/his specific research interests	Up to 1 points
Graduation mark	<p>Score related to the final mark:</p> <ul style="list-style-type: none"> - 110 and 110 with honours (magna cum laude): 5 points - from 107 to 109: 4.5 points - from 105 to 106: 3.5 points - from 100 to 104: 2.5 points - from 95 to 99: 1 point - under 95: 0.5 points 	Up to 5 points
Average of the exam marks (if the candidate will attain the degree no later than 31 October 2023)	<p>Score related to the average of the exam marks:</p> <ul style="list-style-type: none"> - from 28 to 30: 5 points - from 27 to 27.99: 4.5 points - from 26.5 to 26.99: 3.5 points - from 26 to 26.49: 2.5 points - from 25 to 25.99: 1 point - under 25: 0.5 points 	Up to 5 points
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	Up to 70 points
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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	18 September 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. <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>