

CHEMICAL SCIENCES					
CYCLE	XXXVIII				
COORDINATOR	Prof.ssa Alessia BACCHI email: <u>alessia.bacchi@unipr.it</u> Department of Chemistry, Life Sciences and Environmental Sustainability				
DURATION	3 years				
STARTING DATE OF THE PHD PRC	OGRAM 01/11/2022				
 B) Metal coordination and de C) PNA-based systems for link D) Design and synthesis of orgetheir properties E) Preparation, characterizatic substances F) Integration of advanced an metrological traceability o Project: 21GRD07 PlasticTingreener environment and of EURAMET) G) Novel small molecule active TRAINING OBJECTIVES The training program aims to proving the advanced fields of Analytica Organic Chemistry Unit of the Depaid specific training pathway in the context of the in Italy and abroad 	 E) Preparation, characterization and study of the catalytic and biological properties of mechanochemically obtained substances F) Integration of advanced analytical platforms for the detection and characterization of nano- and small microplastics: metrological traceability of measurement data to address environmental pollution and food safety issues (Project: Project: 21GRD07 PlasticTrace - Metrological traceability of measurement data from nano to small-microplastics for a greener environment and food safety, Bando: European Partnership on Metrology Call 2021 – Green Deal programme of EURAMET) G) Novel small molecule activation modes promoted by visible light 				
	 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 within the deadline set for enrollment, that is by 24.10.2022.				

POSITIONS PUT OUT TO COMPETITION	7	With Scholarship	7



Position with Scholarship					
N°	Funding entity	Research Topic			
3	Scholarship funded by University of Parma (Ministerial funds)	• Research Topic: A-B-C-D-E			
1	Scholarship funded by University of Parma (University funds)	• Research Topic: A-B-C-D-E			
1	Scholarship co-funded by Fondazione Cariparma	• Research Topic: A-B-C-D-E			
1	Scholarship funded by the Department of Chemistry, Life Sciences and Environmental Sustainability (Project: 21GRD07 PlasticTrace - Metrological traceability of measurement data from nano to small-microplastics for a greener environment and food safety, Bando: European Partnership on Metrology Call 2021 – Green Deal programme of EURAMET)	• Research Topic: F			
Position with Scholarship LINKED TO SPECIFIC TOPICS (art. 11 of the Competition notice)					
During the Oral Exam, applicants may express and/or confirm their interest of being assigned a scholarship linked to a specific research topic. The Examination Board will evaluate their eligibility based on specific competences, experience and specific aptitudes of the applicants.					

N°	Funding entity	BOUND RESEARCH TOPIC
1	Scholarship financed with funds under the PNRR– Mission 4 component 1 (Ministerial Decree 351/2022 art. 7 "PNRR Research") Finanziato dall'Unione europea NextGenerationEU	• Research Topic: G: Novel small molecule activation modes promoted by visible light

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: <u>ENGLISH</u> . 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.		
CANDIDATES ADMITTED TO THE ORAL TEST CAN TAKE THE EXAM IN PRESENCE OR REMOTELY IN AUDIO AND VIDEO TELECONFERENCE (The Oral Exam takes place <u>in presence</u> . Candidates who intend to take the Oral Exam remotely must submit a motivated REQUEST, to this purpose, as per the model attached to the competition notice)			
THE INTERVIEW MAY BE HELD ALSO IN ENGLISH			
LIST OF QUALIFICATIONS TO BE SUBMITTED AND THEIR ASSESSMENT			
MANDATORY DOCUMENTS TO BE ATTACHED TO THE ON-LINE APPLICATION			
ANNEX A	ANNEX A (art. 5 of the Competition notice)		
Identification Document Scanned Copy of a valid identity document with photo (i.e. identity card, passport)			



Commission Mits				
Curriculum Vitae et studiorum	No specific CV format is required (see art. 4 of the Competition notice)			
Abstract of degree thesis	Abstract of the second cycle master's degree thesis. Undergraduate applicants must submit the draft of the thesis approved by their supervisor (abstract/draft of the thesis: 10.000 characters including spaces)			
Qualifications	Certificates and academic transcript of records for both Bachelor' and Master' degrees containing the following details for each degree held: (art. 4 of the Competition notice): University that granted the degree - Type of degree (first cycle/second cycle/single cycle) Name of the degree program - Date of graduation - Final mark - List of exams and corresponding scores (academic transcript of records) - Translation into Italian or English (only for degrees issued in languages other than Italian or English).			
Research Project	Written in Italian or in English, according to the format attached to the competition notice. It will have to focus on an original research topic (unpublished , developed personally by the candidate. It should be noted that the Examination Board can use of IT tools useful for verifying the originality of the submitted Project). <u>It does not represent a constraint with respect to the following choice of the doctoral thesis</u> , that shall be assigned by the Academic Board.			
		BE ATTACHED TO THE APPLICATION, IF IN POSSESSION OF THE APP nent drawn up in Italian or in English)	PLICANT	
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.			
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Scientific Publications	proj Arti		d at conferences or	
Scientific Publications Other experiences	proj Arti sym – I	ect in the field of Chemical Sciences. cles on scientific journals with referees, communications presented	d at conferences or es.	
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Other experiences QUALIFICATION Curriculum Vitae et studiorum Graduation mark or Average of t exam marks (if the candidate will attain the degree no later than 24	proj Arti sym – I	ect in the field of Chemical Sciences. Incles on scientific journals with referees, communications presented Inposia, book chapters, other publications related to Chemical Science Participation in Schools or training courses related to Chemical Science Any awards received related to Chemical EVALUATION CRITERIA EVALUTATION CRITERIA Relevance of the academic career as well as postgraduate experiences and other research activities related to Chemical Sciences Assignment of a score related to the final mark or, for candidates who will attain the degree by 24 October 2022, a	d at conferences or es. nces POINTS Up to 16 points	
Other experiences QUALIFICATION Curriculum Vitae et studiorum Graduation mark or Average of t exam marks (if the candidate will attain the degree no later than 24 October 2022)	proj Arti sym – I	ect in the field of Chemical Sciences. Incles on scientific journals with referees, communications presented Inposia, book chapters, other publications related to Chemical Science Participation in Schools or training courses related to Chemical Science Any awards received related to Chemical EVALUATION CRITERIA EVALUTATION CRITERIA Relevance of the academic career as well as postgraduate experiences and other research activities related to Chemical Sciences Assignment of a score related to the final mark or, for candidates who will attain the degree by 24 October 2022, a score related to the average of the exam marks Consistency of the Master's Degree thesis with the doctoral	d at conferences or es. nces POINTS Up to 16 points Up to 5 points	
Other experiences QUALIFICATION Curriculum Vitae et studiorum Graduation mark or Average of t exam marks (if the candidate will attain the degree no later than 24 October 2022) Graduation thesis	proj Arti sym – I	ect in the field of Chemical Sciences. Incles on scientific journals with referees, communications presented inposia, book chapters, other publications related to Chemical Science Participation in Schools or training courses related to Chemical Science Any awards received related to Chemical EVALUATION CRITERIA EVALUTATION CRITERIA Relevance of the academic career as well as postgraduate experiences and other research activities related to Chemical Sciences Assignment of a score related to the final mark or, for candidates who will attain the degree by 24 October 2022, a score related to the average of the exam marks Consistency of the Master's Degree thesis with the doctoral programme research topics Score related to the evaluation of the Project based on originality,	d at conferences or es. nces POINTS Up to 16 points Up to 5 points Up to 10 points	



ORAL EXAM			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.		tes. It the the f their	 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				
	DATE	19 Sep	19 September 2022 (with possible extension in the following days)				
	TIME	10:30 AM (Italian time)					
ORAL EXAM	PLACE	Departiment of Chemistry, Life Sciences and Environmental Sustainability CHEMISTRY BUILDING Parco Area delle Scienze, 17/A – Campus 43124 PARMA - ITALY					
OTHER INFORMATION The cl of the		choice The cl	hoice of the Research Topic to be expressed in Annex A is not binding on the assignment e research project, and it is intended to assess candidates skills during the admission				