

**PhD Course: FUSION SCIENCE AND ENGINEERING  
in agreement with Università degli Studi di Napoli Federico II**

<b>Department</b>	Centro di Ateneo "Centro Ricerche Fusione"		
<b>Duration</b>	3 years		
<b>Number of positions</b>	Scholarships funded by the University	n. 2	
	Scholarships funded by the partner university	n. 3	1 scholarship funded by Università degli Studi di Napoli Federico II; 1 scholarship funded by Università degli Studi di Napoli Federico II; 1 scholarship funded by Università degli Studi di Napoli Federico II;
	Scholarships funded by external public or private bodies/Departments	n. 1	1 scholarship funded by Istituto Nazionale di Fisica Nucleare - Sezione di Padova - <b>Topic:</b> Additive manufacturing of refractory metals for nuclear fusion applications;
	<b>Total number of positions</b>	<b>n. 6</b>	
<b>Selection criteria</b>	PRESELECTION ON THE BASIS OF EVALUATION OF QUALIFICATIONS AND ORAL EXAMINATION		
<b>Oral examination via remote interview:</b>	Applicants who have requested it in the application form will take the oral exam via remote interview using the ZOOM videoconference tool.		
<b>Evaluation criteria</b>	Qualifications: points max 70 Oral examination: points max 30		
<b>Documents to be submitted</b>	Thesis:	Points: max 10	(Applicants waiting to be awarded the entrance qualification: those waiting to be awarded the entrance qualification by 30th September 2022 will submit a summary of the master thesis project (max. 4 pages) signed by the applicant and the supervisor)
	Curriculum:	Points: max 30	The CV (please use the Europass CV template) must include the following information: - Weighted average of the exams of the Bachelor + Master degrees or arithmetic average of the exams if in compliance with the former degree regulations. Students with a foreign degree, have to provide the Grade Point Average (GPA) for each degree obtained - List of all exams and corresponding grades obtained for the bachelor and master degrees or in compliance with the former degree regulations - Time spent abroad during your studies (e.g. Erasmus grants, Time, Erasmus Placement, thesis abroad, etc.) - Relevant work experience (research grants, scholarships, internship periods, period of employment) - Awards - Knowledge of foreign languages (certifications)
	Scientific publications:	Points: max 5	Manuscripts accepted for publication can also be considered if suitable documentation is provided

			(conference programme, acceptance letter, DOI etc.)
	Other documents:	Points: max 25	The candidate must submit a RESEARCH PROJECT among the research topics reported at: <a href="https://crf.unipd.it/phd/admission">https://crf.unipd.it/phd/admission</a> The description of binding research topics funded by external partners (if any) are reported at: <a href="https://crf.unipd.it/phd/admission">https://crf.unipd.it/phd/admission</a> If the candidate is applying for a scholarship with constrained research topic, the proposed project must be related to that specific research topic. The research project must include: 1) Project title and abstract (max 500 words) 2) State of the Art of the subject of the project (max one page) 3) Project objectives and scientific and personal motivations for undertaking the specific research proposed and for choosing the PhD course in Fusion Science and Engineering (max one page) 4) Methods proposed to achieve the project objectives, and sequence of activities (max one page) 5) References (max 10) The project should be written in English using an A4 page format, with 2.5 cm margins, single line, font Times New Roman 12pt.
<b>Preselection: First meeting of the Evaluating Commission</b>	10 JUNE 2022 11:00		
<b>Publication of the results of the evaluation of the preselection</b>	Within <b>10 JUNE 2022</b> the evaluating Commission will publish the results of the evaluation of the qualifications in the following website: <a href="https://crf.unipd.it/phd/admission">https://crf.unipd.it/phd/admission</a>  In order to be admitted to the examination, the candidate must get a score of at least 7/10 in the preselection.		
<b>Publication of the timetable of remote interviews and instructions on how to use the ZOOM video conferencing</b>	By <b>10 JUNE 2022</b> the commission will publish on the course website <a href="https://crf.unipd.it/phd/admission">https://crf.unipd.it/phd/admission</a> the timetable of the remote interviews and the instructions on how to use the ZOOM video conferencing for those applicants who have chosen in the application form to take the oral examination via remote interview and who have passed the preselection on the basis of the qualifications with a pass-mark of at least 7/10.		
<b>Oral examination</b>	14 JUNE 2022 09:00 - The exam may continue: 15/06/2022 ore 9:00 - Centro Ricerche Fusione c/o Consorzio RFX Corso Stati Uniti, 4 35127 Padova		
<b>Language/s</b>	<b>Foreign language/s assessment at the oral examination:</b> At the oral examination the commission will assess the knowledge of the following language/s: English  <b>Admission exam:</b> The admission exam will be taken in: English		
<b>Examination topics</b>	Plasma physics and magnetic confinement fusion technology		
<b>Didactic program</b>	The teaching activity of the course addresses topics related to Fusion Science and Engineering. Specifically the following three Advanced Courses are offered: - AC1: Physics and Diagnostics of Plasmas - AC2: Plasma Control - AC3: Fusion Technologies Further info: <a href="https://crf.unipd.it/phd/courses">https://crf.unipd.it/phd/courses</a>		

<b>PhD Course Website:</b>	<a href="https://crf.unipd.it/phd">https://crf.unipd.it/phd</a>
<b>Further information</b>	<p><b>Department:</b> Centro di Ateneo "Centro Ricerche Fusione"  <b>Address:</b> Via Corso Stati Uniti - N. 4, 35127 Padova (PD)  <b>Contact person:</b> Minicuci Maurizio  <b>telephone:</b> 0498295014 <b>e-mail:</b> <a href="mailto:maurizio.minicuci@unipd.it">maurizio.minicuci@unipd.it</a></p>
<b>How to apply</b>	<p>The application must be submitted only via the online procedure available at: <b><a href="https://pica.cineca.it/unipd/dottorati38">https://pica.cineca.it/unipd/dottorati38</a></b>  The documents must be attached in pdf format.  The application and the attached documents are submitted automatically by closing the online procedure. So no hard copy of the application and of the documents must be sent to the office.</p>
<b>Deadlines</b>	<p>Publication of the ranking lists and enrollment from <b>1 July 2022</b>  Beginning of PhD courses <b>1 October 2022</b></p>