

PhD Course: FUSION SCIENCE AND ENGINEERING in agreement with Università degli Studi di Napoli Federico II			
Department	Centro di Ateneo "Centro Ricerche Fusione"		
Duration	3 years		
Number of positions	Scholarships funded by the University	n. 2	
	University Scholarships co-funded by University Centre	n. 1	Co-Funding Centre: Centro di Ateneo "Centro Ricerche Fusione"
	Scholarships funded by institution arrangement	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 DTT S.c.a.r.l. - Topic: Development of new solutions for high voltage power supplies of Neutral Beam Injectors for nuclear fusion experiments;
	Industrial Doctorate	n. 2	2 places reserved to employees of Consorzio RFX legally seated in Corso Stati Uniti 4, 35127, Padova
	Total number of positions	n. 9	
Selection criteria	PRESELECTION ON THE BASIS OF EVALUATION OF QUALIFICATIONS AND ORAL EXAMINATION		
Oral examination via remote interview:	Applicants will take the oral examination via remote interview (ZOOM)		
Evaluation criteria	Qualifications: points max 70 Oral examination: points max 30		
Documents to be submitted	Thesis:	Points: max 10	Applicants waiting to be awarded the entrance qualification: candidates waiting to be awarded the entrance qualification by 30th September 2021 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: - Grade Point Average (GPA) for every degree obtained (attach copy of the Transcript of Records) - 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	Publications in journals / conferences proceedings / books. 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: https://crf.unipd.it/phd/admission The description of constrained research topics funded by external partners (if any) are reported at: https://crf.unipd.it/phd/admission 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
Preselection: First meeting of the Evaluating Commission	08 JUNE 2021 10:00		
Publication of the results of the evaluation of the preselection	Within 08 JUNE 2021 the evaluating Commission will publish the results of the evaluation of the qualifications in the following website: https://crf.unipd.it/phd/admission In order to be admitted to the examination, the candidate must get a score of at least 7/10 in the preselection.		
Publication of the instructions on how to use the ZOOM video conferencing	By 08 JUNE 2021 the commission will publish on the course website https://crf.unipd.it/phd/admission the instructions on how to use the ZOOM video conferencing.		
Oral examination via ZOOM video conferencing	09 JUNE 2021 09:00 - The exam may continue on 10/06/2021 09:00		
Language/s	Foreign language/s assessment at the oral examination: At the oral examination the commission will assess the knowledge of the following language/s: English Admission exam: The admission exam will be taken in: English		
Examination topics	Plasma physics and magnetic confinement fusion technology		
Didactic program	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: https://crf.unipd.it/phd/courses		
PhD Course Website:	https://crf.unipd.it/phd		

Further information	<p>Department: Centro di Ateneo "Centro Ricerche Fusione" Address: Via Corso Stati Uniti - N. 4, 35127 Padova (PD) Contact person: Colautti Fiorella telephone: +39 049 8295891 e-mail: fiorella.colautti@igi.cnr.it</p>
How to apply	<p>The application must be submitted only via the online procedure available at: https://pica.cineca.it/unipd/dottorati37 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>
Deadlines	<p>Publication of the ranking lists and enrollment from 2 July 2021 Beginning of PhD courses 1 October 2021</p>