



**UNIVERSITÀ
DEGLI STUDI
DI TRIESTE**

Area dei Servizi Istituzionali
Unità di staff Dottorati di ricerca



ATTACHMENT 9ter

LAST REVISED 13/10/2021

**DOCTORAL PROGRAMME in
NANOTECHNOLOGY
ADMISSION INFORMATION**

See [Overview](#)

Disclaimer: the tables below provide a quick outline of due dates and required documents. Please refer to the [Notice of Competition](#) for full information on conditions for applying.

REQUIREMENT	DEADLINE
online application and upload of documents	21 October 2021 13:00 (Italian time)
payment of the admission exam fee	21 October 2021
deadline for graduation	31 October 2021
upload of foreign diploma or certificate	21 October 2021 (if available after 21 October, please send it by email to dottorati@amm.units.it within 10 days of graduation)

Documents to be uploaded	
NOTE: applications sent without the mandatory attachments will not be processed	Mandatory -- Optional
1. proof of identity (eg passport)	mandatory
2. curriculum vitae et studiorum , with reference to any postgraduate qualifications, participation in research projects, attendance of theoretical/practical internships and training internships related to the topics of the PhD course, as well as any publications.	mandatory
3. university qualifications:	mandatory

<p>a. for graduates and near-graduates in Italy:</p> <p>I) self-certification of all examinations and relevant scores of second-cycle degree programme, i.e. <i>Laurea magistrale (LM)</i>, <i>Laurea specialistica (LS)</i> or <i>Laurea vecchio ordinamento (LVO)</i></p> <p>II) self-certification of LM, LS or LVO final mark (only for graduates).</p> <p>Self-certification can be drafted using the form available online, or using the online services of the concerned University.</p> <p>b. for graduates and near-graduates from abroad:</p> <p>I) Transcript of Records including examinations and scores obtained. Where applicable, a Diploma Supplement can be submitted instead of the Transcript.</p> <p>II) Master diploma/certificate or equivalent qualification giving access to the Doctoral Programme (only for graduates).</p> <p>The foreign qualification must be comparable by level and course duration (and, where applicable, by subject area) with the required Italian degree and allow access to the PhD in the issuing country;</p> <p>III) Translation into Italian or English of the above documents, if issued in a different language.</p>	
<p>4. thesis abstract</p> <p>It must be submitted by both graduates and near-graduates, in English or Italian.</p> <p>We recommend to use the "Thesis Abstract form", available online.</p>	mandatory
<p>5. research project in one of the main themes, "Innovation" or "Green", offered by the chosen PhD Programme. Under "Project abstracts", applicants can find a description of the project proposals that they are recommended to develop according to the "research project form", available online. Applicants may apply for more than one scholarship, provided that they submit one project per scholarship.</p>	mandatory
<p>6. publications that will be considered in the evaluation of the CV</p>	optional

Applicants who hold a foreign degree and have never enrolled at this or other University in Italy must also upload their Secondary School certificate.

PLACES AND SCHOLARSHIPS AVAILABLE			
<p>Total number of funded places</p>	7	<p>Note: Scholarship increase for study/research abroad can be granted only for uninterrupted periods of no less than 60 days. The number of months abroad that can be funded, as shown below under each scholarship description, must be spent within 31 December 2023. Any periods abroad beyond that date might be funded by the relevant Department, where applicable.</p>	
<p><i>Scholarships (code, total number and description)</i></p>	<p>PON/10 1</p> <hr/> <p>PON/11 1</p>	<p>Scholarship MUR/PON co-financed by the Department of Medicine, Surgery and Health Sciences</p> <p>Subject area: Innovation</p> <p>Project title: "Evaluation of intracellular anti-cancer drug delivery through the synthesis of innovative nanoparticles.</p> <p>Principal investigator: prof. Matteo Biasotto</p> <p>Project link</p> <p>Company where the PhD student will spend a compulsory study/research period of 6 months: Nanodent Srl</p> <p>Months abroad: 0</p> <hr/> <p>Scholarship MUR/PON co-financed by the Department of Physics</p> <p>Subject area: Sustainability</p> <p>Project title: "Modulation of the micro and nano structure of first wall materials in reactors for the production of energy by nuclear fusion."</p> <p>Principal investigator: prof. Stefano Fabris, Simone Dal Zilio</p> <p>Project link</p> <p>Company where the PhD student will spend a compulsory</p>	

			study/research period of 6 months: ENI SpA Months abroad: 0
PON/12	1	Scholarship MUR/PON co-financed by the Department of Physics Subject area: Sustainability Project title: "Engineering of nanostructured photocatalytic materials for hydrogen technologies" Principal investigator: prof. Roberto Gotter Project link Company where the PhD student will spend a compulsory study/research period of 9 months: APE Research Srl Months abroad: 6	
PON/13	1	Scholarship MUR/PON co-financed by the Department of Physics Subject area: Sustainability Project title: "X-ray spectroscopy for hydrogen-based economy." Principal investigator: prof. Marco Lazzarino, Elena Magnano Project link Company where the PhD student will spend a compulsory study/research period of 6 months: BRETON SpA Months abroad: 0	
PON/14	1	Scholarship MUR/PON co-financed by the Department of Physics and by SNAM S.p.A. Subject area: Sustainability Project title: "Study of materials for SOFC application by AP-NEXAF" Principal investigator: prof Piero Torelli Project link Company where the PhD student will spend a compulsory study/research period of 6 months: SNAM S.p.A. Months abroad: 3	
PON/15	1	Scholarship MUR/PON co-financed by the Department of Chemical and Pharmaceutical Sciences and by ENPHOS Srl Subject area: Sustainability Project title: "Functional Carbon Nanostructures for "Green" Electrolyzers (NANOGREEN) Principal investigator: prof. Maurizio Prato Project link Company where the PhD student will spend a compulsory study/research period of 6-12 months: ENPHOS Srl Months abroad: 0	
PON/16	1	Scholarship MUR/PON co-financed by the Department of Medicine, Surgery and Health Sciences with funds on the project H2020 iToBoS Grant Agreement n. 965221 CUP J99C21000380006 Subject area: Sustainability Project title: "Green synthesis of nanoparticles and implementation of biosensors for medical-diagnostic applications" Principal investigator: prof. Serena Bonin Project link Company where the PhD student will spend a compulsory study/research period of 6 months: AB ANALITICA Srl Months abroad: 6	

TERMS AND CONDITIONS

Required academic qualifications (see art. 2 of the Notice of Competition)

“Lauree vecchio ordinamento” (awarded in Italy before the D.M. 509/99 reform of the University system) All

“Lauree specialistiche” (LS) awarded in Italy All

“Lauree magistrali” (LM) awarded in Italy All

Selection criteria

Qualifications + interview

Maximum final score: **100** - Minimum final score required for eligibility: **60**

Evaluation criteria

Qualifications including research project (maximum score: **30** - minimum score required: **15**):

criteria	subcriteria			
<ul style="list-style-type: none"> curriculum vitae et studiorum 	Evaluation of the CV based on any postgraduate qualifications, participation in research projects, attendance of theoretical / practical internships and training internships related to the topics of the PhD course, study and research periods abroad. Evaluation of the degree final mark: - 110 <i>cum laude</i> : 2 points - from 108/110 to 110/110: 1 point - from 105/110 to 107/110: 0,5 points Evaluation of study abroad: -1 point for every 3 months up to a maximum of 2 points	maximum score 5		maximum score 7
	Up to a maximum of 2 points taking into consideration any papers published from 2017 onwards (1 score point for each paper published on a journal indexed by ISI, and 0,5 score point for any other publication in extenso or contribution to a conference).	maximum score 2		
<ul style="list-style-type: none"> abstract of the degree thesis 	Up to a maximum of 3 points, considering the coherence and relevance of the thesis to the topics covered by the PhD Course, as well as the correctness and clarity of the abstract, as drafted using the dedicated form.			maximum score 3
<ul style="list-style-type: none"> exams taken 	The Committee will consider the weighted mean (M) and assign the points as shown here:	weighted mean	points	maximum score 5
		29 ≤ M ≤ 30 27 ≤ M < 29 25 ≤ M < 27 23 ≤ M < 25 21 ≤ M < 23 M < 21	5 4 3 2 1 0	
<ul style="list-style-type: none"> Research project 	maximum score 15 - minimum score required 9			

	<p>The Committee will evaluate the description of the state of the art, the relevance of the scientific research, the objective to be achieved, the personal contribution to the research activity, including the activity to be performed in the company.</p> <p>Relevance of the project to the criteria of the Programma Operativo Nazionale (PON) will be considered, particularly in relation to the National Smart Specialisation Strategy (NSSS) and the National Research Program (PNR), and its ability to provide added value in terms of scientific, social and economic impact on the national territory (max 5.000 characters)</p>
	<p>Interview: maximum score 70 - minimum score required 45</p>
	<p>During the interview, the Committee will consider the candidate's skills, ie clarity and consistency, ability to analyze and summarize as well as their scientific knowledge, capacity for research, knowledge of the current scientific literature underlying the topics of the research. The interview will also include reading and comprehension of a short text in English.</p>

The [admission results](#) will be published online. The admission process includes the following steps: Assessment of foreign degrees >> Assessment of other qualifications >> Interview. The merit list will be published following the Doctoral Board decision on the assignment of places and scholarships.

<i>Examination schedule</i>	<i>Assessment of qualifications</i>	from 25 October 2021
	<i>Interview</i>	<p>4 November 2021 at 8:00 (Italian time)</p> <p>The Board of Examiners will interview candidates also on subsequent days</p> <p style="text-align: center;">---</p> <p>Further details on the interview will be published on this link.</p>
	<i>Language(s) of the interview</i>	<p>Italian</p> <p>English (for non-Italian speaking candidates)</p>
	<i>Language(s) tested in the interview</i>	<p>English (level of knowledge required: CEFR B2)</p>
	<i>Videoconference interview</i>	<p>Upon request of the candidates, the interview may be carried out by videoconference. The form is available on "Videoconference interview" and must be uploaded within the application deadline.</p> <p>Candidates wishing to take the interview remotely and failing to upload the appropriate form for videoconferencing within the deadline, can send their request by email to dottorato.nanotecnologie@units.it up to 4 working days before the date of the interview, stating the reason for their late request.</p> <p>The Board of Examiners may arrange with the candidate a different time for the interview.</p>

SUPPLEMENTARY INFORMATION (following publication of the Notice of Competition)