



# UNIVERSITÀ DEGLI STUDI DI TRIESTE

Area dei Servizi Istituzionali  
Unità di staff Dottorati di ricerca

ATTACHMENT 6ter

LAST REVISED 13/10/2021

## DOCTORAL PROGRAMME in PHYSICS 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	<b>21 October 2021 13:00 (Italian time)</b>
payment of the admission exam fee	<b>21 October 2021</b>
deadline for graduation	<b>31 October 2021</b>
upload of foreign diploma or certificate	<b>21 October 2021</b> (if available after 21 October, please send it by email to <a href="mailto:dottorati@amm.units.it">dottorati@amm.units.it</a> within 10 days of graduation)

<b>Documents to be uploaded</b>	
NOTE: applications sent without the mandatory attachments will not be processed	Mandatory -- Optional
<b>1. proof of identity</b> (eg passport)	<b>mandatory</b>
<b>2. curriculum vitae et studiorum</b> , 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.	<b>mandatory</b>

<p><b>3. university qualifications:</b></p> <p>a. for graduates and near-graduates <b>in Italy:</b></p> <p><b>I)</b> 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><b>II)</b> self-certification of LM, LS or LVO final mark (only for graduates).</p> <p><a href="#">Self-certification</a> 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 <b>abroad:</b></p> <p><b>I)</b> Transcript of Records including examinations and scores obtained. Where applicable, a <b>Diploma Supplement</b> can be submitted instead of the Transcript.</p> <p><b>II)</b> 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><b>III)</b> Translation into Italian or English of the above documents, if issued in a different language.</p>	<b>mandatory</b>
<p><b>4. thesis abstract</b></p> <p>It must be submitted by both graduates and near-graduates, in English or Italian.</p> <p>We recommend to use the "<a href="#">Thesis Abstract form</a>", available online.</p>	<b>mandatory</b>
<p><b>5. research project</b> 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 "<a href="#">research project form</a>", available online. Applicants may apply for more than one scholarship, provided that they submit one project per scholarship.</p>	<b>mandatory</b>
<p><b>6. publications</b> 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><b>Total number of funded places</b></p>	5	<p><b>Note:</b> 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/15</p> <hr/> <p>PON/16</p>	<p>1</p> <p>Scholarship MUR/PON co-financed by the Department of Physics and by QTI Quantum Telecommunications Italy Srl</p> <p>Subject area: Sustainability</p> <p>Project title: "Decoherence in quantum-enhanced power grids."</p> <p>Principal investigator: prof. Angelo Bassi</p> <p>Project <a href="#">link</a></p> <p>Company where the PhD student will spend a compulsory study/research period of 6 months: QTI Quantum Telecommunications Italy Srl</p> <p>Months abroad: 0</p> <hr/> <p>1</p> <p>Scholarship MUR/PON co-financed by the Department of Physics</p> <p>Subject area: Sustainability</p> <p>Project title: "Green HPC and big-data analysis in Numerical Cosmology."</p>

		Principal investigator: prof Stefano Borgani, Giuliano Taffoni, Luca Tornatore, Pierluigi Monaco Project <a href="#">link</a> Company where the PhD student will spend a compulsory study/research period of 6 months: E4 Computing Engineering SpA. Months abroad: 0
PON/17	1	Scholarship MUR/PON co-financed by the Department of Physics and by PICOSATS Srl Subject area: Sustainability Project title: "Monitoring climate change through innovative space technologies." Principal investigator: prof. Anna Gregorio Project <a href="#">link</a> Company where the PhD student will spend a compulsory study/research period of 12 months: PICOSATS Srl Months abroad: 9
PON/18	1	Scholarship MUR/PON co-financed by the Department of Physics Subject area: Sustainability Project title: "Sun-planet interaction and Space weather modelling studies for Eearth awareness and Earth energy supplier sustainability" Principal investigator: prof Francesco Longo, Stavro Lambrov Ivanovski Project <a href="#">link</a> Company where the PhD student will spend a compulsory study/research period of 6 months: PICOSATS Srl Months abroad: 0
PON/19	1	Scholarship MUR/PON co-financed by the Department of Physics and by BIOVALLEY INV. SpA Subject area: Sustainability Project title: "Physics PhD project: Model-based environmental design to improve health safeguards during the COVID-19 pandemic and beyond." Principal investigator: prof Edoardo Milotti, Francesca Larese Filon Project <a href="#">link</a> Company where the PhD student will spend a compulsory study/research period of 12 months: BIOVALLEY INV. SpA Months abroad: 0

## TERMS AND CONDITIONS

<i>Required academic qualifications (see art. 2 of the Notice of Competition)</i>			
<i>"Lauree vecchio ordinamento" (awarded in Italy before the D.M. 509/99 reform of the University system)</i>	All		
<i>"Lauree specialistiche" (LS) awarded in Italy</i>	All		
<i>"Lauree magistrali" (LM) awarded in Italy</i>	All		
<i>Selection criteria</i>	<b>Qualifications + interview</b> Maximum final score: <b>100</b> - Minimum final score required for eligibility: <b>60</b>		
<i>Evaluation criteria</i>	<b>Qualifications including research project (maximum score: 30 - minimum score required: 15):</b>		
	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;"><b>criteria</b></td> <td style="width: 50%; text-align: center;"><b>subcriteria</b></td> </tr> </table>	<b>criteria</b>	<b>subcriteria</b>
<b>criteria</b>	<b>subcriteria</b>		

<ul style="list-style-type: none"> <li>curriculum vitae et studiorum</li> </ul>	<p>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.</p> <p>Evaluation of the degree final mark:</p> <ul style="list-style-type: none"> <li>- 110 <i>cum laude</i>: 2 points</li> <li>- from 108/110 to 110/110: 1 point</li> <li>- from 105/110 to 107/110: 0,5 points</li> </ul> <p>Evaluation of study abroad:</p> <ul style="list-style-type: none"> <li>-1 point for every 3 months up to a maximum of 2 points</li> </ul>	maximum score 5	maximum score <b>7</b>														
	<p>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).</p>	maximum score 2															
<ul style="list-style-type: none"> <li>abstract of the degree thesis</li> </ul>	<p>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.</p>		maximum score <b>3</b>														
<ul style="list-style-type: none"> <li>exams taken</li> </ul>	<p>The Committee will consider the weighted mean (M) and assign the points as shown here:</p>	<table border="1"> <thead> <tr> <th>weighted mean</th> <th>points</th> </tr> </thead> <tbody> <tr> <td>29 ≤ M ≤ 30</td> <td>5</td> </tr> <tr> <td>27 ≤ M &lt; 29</td> <td>4</td> </tr> <tr> <td>25 ≤ M &lt; 27</td> <td>3</td> </tr> <tr> <td>23 ≤ M &lt; 25</td> <td>2</td> </tr> <tr> <td>21 ≤ M &lt; 23</td> <td>1</td> </tr> <tr> <td>M &lt; 21</td> <td>0</td> </tr> </tbody> </table>	weighted mean	points	29 ≤ M ≤ 30	5	27 ≤ M < 29	4	25 ≤ M < 27	3	23 ≤ M < 25	2	21 ≤ M < 23	1	M < 21	0	maximum score <b>5</b>
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<ul style="list-style-type: none"> <li>Research project</li> </ul>	maximum score <b>15</b> - minimum score required <b>9</b>																
<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 <a href="#">National Smart Specialisation Strategy (NSSS)</a> and the National Research Program (<a href="#">PNR</a>), 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><b>Interview: maximum score 70 - minimum score required 45</b></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>																	
<p>The <a href="#">admission results</a> will be published online. The admission process includes the following steps: Assessment of foreign degrees &gt;&gt; Assessment of other qualifications &gt;&gt; Interview. The merit list will be published following the Doctoral Board decision on the assignment of places and scholarships.</p>																	

<i>Examination schedule</i>	<i>Assessment of qualifications</i>	<b>from 26 October 2021</b>
	<i>Interview</i>	<b>4 November 2021 at 8:30 (Italian time)</b> The Board of Examiners will interview candidates also on subsequent days  --- The interview will be held only remotely Further details on the interview will be published on this <a href="#">link</a> .
	<i>Language(s) of the interview</i>	Italian English (for non-Italian speaking candidates)
	<i>Language(s) tested in the interview</i>	English (level of knowledge required: <a href="#">CEFR B2</a> )

<b>SUPPLEMENTARY INFORMATION (following publication of the Notice of Competition)</b>