



**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	<b>7 June 2021 1:00 p.m. (Italian time)</b>
payment of the admission exam fee	<b>7 June 2021</b>
deadline for graduation	<b>31 October 2021</b>
upload of foreign diploma or certificate	<b>7 June 2021</b> (if available after 7 June, please send it by email to <a href="mailto:dottorati@amm.units.it">dottorati@amm.units.it</a> within 10 days of graduation – see art. 3 of the Call)

<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>	<b>mandatory</b>
<b>3. university qualifications (Master level):</b> a. for graduates and near-graduates in Italy: 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> II) self-certification of LM, LS or LVO final mark (only for graduates).	<b>mandatory</b>

<p><a href="#">Self-certifications</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 <b>from abroad</b>:</p> <p>I) Transcript of Records including examinations and scores obtained. Where applicable, a <b>Diploma Supplement</b> 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). 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><b>4. university qualifications (Bachelor level):</b></p> <p>Note: please upload these items through the section called “Management of qualifications and documents for the evaluation”.</p> <p>a. for graduates <b>in Italy</b>: self-certification of examinations and relevant scores of first-cycle degree, where applicable; <a href="#">Self-certification</a> can be drafted using the form available online, or using the online services of the issuing University</p> <p>b. for graduates <b>from abroad</b>: Transcript of Records of Bachelor degree or equivalent first-cycle qualification (if applicable) including examinations and scores obtained. A <b>Diploma Supplement</b> can be submitted instead of the Transcript.</p> <p><b>Please note</b> that if the certificates are issued in a language other than English or Italian, a <b>translation</b> must be included, along with the original document.</p>	optional
<p><b>5. thesis abstract</b></p> <p>It must be submitted by both graduates and near-graduates, in English or Italian. We recommend to use the “<a href="#">Thesis Abstract form</a>”, as failure to do so may lead to exclusion.</p>	<b>mandatory</b>
<p><b>6. statement of purpose</b></p>	<b>mandatory</b>
<p><b>7. max two letters of reference / recommendation</b> from lecturers/researchers to be sent directly by the referees by email (do <u>not</u> upload them) to <a href="mailto:dottorato.nanotecnologie@units.it">dottorato.nanotecnologie@units.it</a> (please write in the subject: Letter concerning “Surname Name”) <b>before 9 June 2021 1:00 pm</b> (Italian time)</p>	optional (*) exception: submission via email
<p><b>8. publications and conference presentations</b></p>	optional
<p><b>9. research project:</b></p> <p>Candidates must submit a project, preferably in English, in a topic of their choice based on their specific competencies which does <u>not</u> necessarily have to be consistent with the topic or project that will eventually be developed throughout their doctoral research. The project will be evaluated based on originality and competence criteria. Suggestions for research projects can be found on the PhD Programme webpage: <a href="https://web.units.it/dottorato/nanotecnologie/en">https://web.units.it/dottorato/nanotecnologie/en</a> The project will be discussed during the interview. Failing submission of the project, the candidate cannot be admitted to de interview. We recommend to use the “<a href="#">Research Project form</a>” available online for the project drafting, as failure to do so may lead to exclusion.</p>	<b>mandatory</b>

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

**Total number of non-funded places**  
(code: SB)

1

<p><b>Total number of funded places</b></p>	<p><b>9</b></p>	<p><b>Note:</b></p> <ul style="list-style-type: none"> <li>- Candidates who accept a subject-specific scholarship are committed to the project topic.</li> <li>- Study/research abroad that entitles to a scholarship increase: <b>2 to 18 months</b> for each PhD student (over 3 years) if not otherwise stated in each scholarship description.</li> </ul> <p>The increase can be granted only for uninterrupted periods of no less than 60 days</p>
<p><i>Scholarships (code, total number and description)</i></p>	<p>M/1</p> <hr/> <p>MD/2</p> <hr/> <p>MD/3</p> <hr/> <p>MD/4</p> <hr/> <p>MD/5</p> <hr/> <p>MD/6</p>	<p>1 Scholarships MUR/University</p> <p>The topic must be consistent with the PhD sectors/research lines Research on a project proposed for the 37<sup>th</sup> PhD cycle and published on the website Project link: <a href="https://web.units.it/dottorato/nanotecnologie/en/node/5132">https://web.units.it/dottorato/nanotecnologie/en/node/5132</a></p> <hr/> <p>1 Scholarship MUR/University co-financed by the Department of Physics with funds from CNR-IOM</p> <p>Project title: “Materials for solid fuel cells studied by ap-nexafs” Principal investigator: dott. Piero Torelli - <a href="mailto:torelli@iom.cnr.it">torelli@iom.cnr.it</a> Project link: <a href="https://web.units.it/dottorato/nanotecnologie/en/node/5132">https://web.units.it/dottorato/nanotecnologie/en/node/5132</a></p> <p>Note: number of months abroad for the purpose of scholarship increase: max 3</p> <hr/> <p>1 Scholarship MUR/University co-financed by the Department of Physics with funds from CNR-IOM</p> <p>Project title: “Nano-mechanical systems for the understanding of cellular mechano-response at the nanoscale” Principal investigators: dott. Marco Lazzarino <a href="mailto:lazzarino@iom.cnr.it">lazzarino@iom.cnr.it</a>, dott.ssa Laura Andolfi <a href="mailto:andolfi@iom.cnr.it">andolfi@iom.cnr.it</a> Project link: <a href="https://web.units.it/dottorato/nanotecnologie/en/node/5132">https://web.units.it/dottorato/nanotecnologie/en/node/5132</a></p> <p>Note: number of months abroad for the purpose of scholarship increase: max 3</p> <hr/> <p>1 Scholarship MUR/University co-financed by the Department of Chemical and Pharmaceutical Sciences with funds from INSTM</p> <p>Project title: “Modelling of electrochemical processes and of nanostructured catalysts for renewable energy applications” Principal investigators: dott. Stefano Fabris - <a href="mailto:fabris@iom.cnr.it">fabris@iom.cnr.it</a>, prof. Paolo Fornasiero - <a href="mailto:pfornasiero@units.it">pfornasiero@units.it</a> Project link: <a href="https://web.units.it/dottorato/nanotecnologie/en/node/5132">https://web.units.it/dottorato/nanotecnologie/en/node/5132</a></p> <p>Note: this scholarship does not include funding for research conducted abroad, except any supplementary funding from the pertaining department.</p> <hr/> <p>1 Scholarship MUR/University co-financed by the Department of Chemical and Pharmaceutical Sciences with funds from INSTM</p> <p>Project title: “Distributed chemicals and fuels production from CO2 in photoelectrocatalytic Devices – DECADE” in the framework of HORIZON 2020 call topic CE-NMBP-25-2019 G.A. 862030 DECADE Principal investigator: prof. Paolo Fornasiero <a href="mailto:pfornasiero@units.it">pfornasiero@units.it</a> Project link: <a href="https://web.units.it/dottorato/nanotecnologie/en/node/5132">https://web.units.it/dottorato/nanotecnologie/en/node/5132</a></p> <p>Note: this scholarship does not include funding for research conducted abroad, except any supplementary funding from the pertaining department.</p> <hr/> <p>1 Scholarship MUR/University co-financed by the Department of Chemical and Pharmaceutical Sciences</p> <p>Project title: “Synthesis of functional carbon nanodots” on the project H2020 ERC AdG 2019 e-DOTS G.A. 885323 CUP J99C20000200006 Principal investigator: prof. Maurizio Prato - <a href="mailto:prato@units.it">prato@units.it</a></p>

		<p>Link al progetto:  <a href="https://web.units.it/dottorato/nanotecnologie/en/node/5132">https://web.units.it/dottorato/nanotecnologie/en/node/5132</a></p> <p>Note: this scholarship does not include funding for research conducted abroad, except any supplementary funding from the pertaining department.</p>
MD/7	1	<p>Scholarship MUR/University co-financed by the Department of Physics with funds from Elettra Sincrotrone S.C.p.A.</p> <p>Project title: "Lipid bilayers as model plasma membrane systems: experimental/theoretical synergy to tackle increasing complexity"</p> <p>Principal investigator: dott.ssa Loredana Casalis – <a href="mailto:loredana.casalis@elettra.eu">loredana.casalis@elettra.eu</a></p> <p>Project link:  <a href="https://web.units.it/dottorato/nanotecnologie/en/node/5132">https://web.units.it/dottorato/nanotecnologie/en/node/5132</a></p> <p>Note: number of months abroad for the purpose of scholarship increase: max 6</p>
MD/8	1	<p>Scholarship MUR/University co-financed by the Department of Engineering and Architecture</p> <p>Project title: "Architected nanomaterials for functional properties"</p> <p>Principal investigator: prof. Vanni Lughi - <a href="mailto:vlughi@units.it">vlughi@units.it</a></p> <p>Project link:  <a href="https://web.units.it/dottorato/nanotecnologie/en/node/5132">https://web.units.it/dottorato/nanotecnologie/en/node/5132</a></p> <p>Note: number of months abroad for the purpose of scholarship increase: max 3</p>
MD/9	1	<p>Scholarship MUR/University co-financed by the Department of Life Sciences with funds from Interreg 'Bioapp' e project MUR 'SNAP'</p> <p>CUP J99C18000200005</p> <p>Project title: "Seaweeds for novel applications and products (SNAP) - Polysaccharide-based mechano-responsive materials for the modulation of biological processes"</p> <p>Principal investigator: prof. Ivan Donati <a href="mailto:idonati@units.it">idonati@units.it</a></p> <p>Project link:  <a href="https://web.units.it/dottorato/nanotecnologie/en/node/5132">https://web.units.it/dottorato/nanotecnologie/en/node/5132</a></p> <p>Note: number of months abroad for the purpose of scholarship increase: max 3</p>
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TERMS AND CONDITIONS											
<i>Required academic qualifications (see art. 2 of the Notice of Competition)</i>											
"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										
<b>Selection criteria</b>	<b>Qualifications + interview</b> Maximum final score: <b>70</b> – minimum final score required for eligibility <b>43</b>										
<b>Evaluation</b>	Qualifications (maximum final score <b>20</b> – minimum final score required <b>8</b> ):										
	<table border="0"> <tr> <td>• curriculum vitae et studiorum</td> <td style="border-left: 1px solid black; padding-left: 10px;">max <b>12</b></td> </tr> <tr> <td>• exams taken</td> <td style="border-left: 1px solid black; padding-left: 10px;">max <b>2</b></td> </tr> <tr> <td>• thesis abstract</td> <td style="border-left: 1px solid black; padding-left: 10px;">max <b>2</b></td> </tr> <tr> <td>• motivation letter</td> <td style="border-left: 1px solid black; padding-left: 10px;">max <b>4</b></td> </tr> <tr> <td>• letters of reference / recommendation</td> <td style="border-left: 1px solid black; padding-left: 10px;">max <b>4</b></td> </tr> </table>	• curriculum vitae et studiorum	max <b>12</b>	• exams taken	max <b>2</b>	• thesis abstract	max <b>2</b>	• motivation letter	max <b>4</b>	• letters of reference / recommendation	max <b>4</b>
• curriculum vitae et studiorum	max <b>12</b>										
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• thesis abstract	max <b>2</b>										
• motivation letter	max <b>4</b>										
• letters of reference / recommendation	max <b>4</b>										

- publications/conference presentations max 2

**Interview:** maximum score **50** – minimum score required **35**

Note: The Board of Examiners may decide to adopt evaluation subcriteria.

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>	<b>from 16 June 2021</b>
	<i>Interview</i>	<p><b>5 July 2020 at 9:30 a.m.</b> (Italian time), University of Trieste – Department of Chemical and Pharmaceutical Sciences, Building C11 – 3<sup>rd</sup> floor – Room “A1” - Via L. Giorgieri 1- TRIESTE</p> <p>The Board of Examiners may decide to interview candidates on subsequent dates</p> <p>(*) The schedule and details of the interview are posted on this <a href="#">link</a>.</p> <p style="text-align: center;">---</p> <p><del>Due to the current COVID-19 outbreak, the Board of Examiners has decided that the interview might be administered <b>only remotely</b>, i.e. by videoconferencing, as provided in this <a href="#">link</a>.</del></p> <p><del>All candidates must show a current and valid identity document at the interview.</del></p>
	<i>Language(s) of the interview</i>	<p>Italian</p> <p>English</p> <p>English (for non-Italian speaking candidates)</p>
	<i>Language(s) tested in the interview</i>	English (level of knowledge required: <a href="#">CEFR B2</a> )
	<i>Videoconference interview</i>	<p>Upon request of the candidates, the interview may be carried out by videoconference. The form is available on “<a href="#">Videoconference interview</a>” 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 <a href="mailto:dottorato.nanotecnologie@units.it">dottorato.nanotecnologie@units.it</a> 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)

22 June 2021	(*)The schedule and details of the interview are posted on the assessment file
28 June 2021	The email address for the videoconference interview has been amended
05 August 2021	Added CUP – Scholarship MD/9