Call for Doctoral positions at the Doctoral Programme in “Materials, Mechatronics and Systems Engineering” 31st cycle

N.B. Please note that only the Italian version of the present call issued with Rector’s Decree n. 276 of May 4, 2015, is legally binding; the English version is provided for information only

THE RECTOR

Given the Law no. 210 of the 3rd of July, 1998, and in particular, art. 4, as amended by article 19, section 1, of law no. 240 of 30 December 2010;

Given the Ministerial Decree no. 45 of the 8th of February 2013, regarding the rules and procures for the accreditation of doctoral programmes and the criteria for their institution by accredited bodies, in particular art. 3;

Given the Decree by the Prime Minister of the 9th of April, 2001, and subsequent amendments, on the general criteria for uniform treatment regarding the right to higher education;

Given the Statute of the University of Trento issued with Rector’s Decree no. 167 of the 23rd of April, 2012, in particular art. 28;

Given the University Regulations for Doctoral Programmes, issued with Rector’s Decree no. 383 of the 4th of July 2013 and subsequent amendments;

Given the proposal made by the Department of Industrial Engineering;

Given the report of the internal Assessment Committee of the 12nd of December 2013 concerning the requisites of appropriateness proposed by the Doctoral Programmes;

Considering that, with Decree protocol n. 687 of 20 August 2014, the Ministry granted, with effect from the cycle activated in A.Y. 2015-2016, the accreditation of the Doctoral Programme in Civil, Environmental and Mechanical Engineering;

Given the decision by the Academic Senate of 26 November 2014 concerning the availability of scholarships for each PhD programme of the University of Trento;

Given the decision by the Academic Senate of 25 February 2015 regarding the setting of the final rankings and the definition of the procedure to assign scholarships reserved to specific topics and the introduction of a new type of subjects for which additional seats may be reserved;

Considering the operative instructions on the A.Y. 2015-2016 PhD Programmes’ accreditation process, announced with Ministry Note on March 13, 2015;

In consideration of the resolution of the Academic Senate on March 25, 2015, according to which the University of Trento, taking into account the time required for international recruitment, has decided not to delay issuing the calls and their relative selection procedures;

DECREES

Art. 1 – SUBJECT OF THE CALL

The University of Trento opens the call for position for the 31st cycle (Academic Year 2014/2015) of the Doctoral Programme in "Materials, Mechatronics and Systems Engineering" as follows:
### Research area A: Materials Science and Engineering

<table>
<thead>
<tr>
<th>Positions</th>
<th>N.</th>
<th>Topics of reserved scholarships</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Trento Scholarships</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>Bruno Kessler Foundation and University of Trento scholarship</td>
<td>1</td>
<td>A1 - Development of multi-techniques systems and methodologies for material characterization in the fields of material science, cultural heritage and environmental control</td>
</tr>
<tr>
<td>Position without scholarship</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>N. of positions</td>
<td>8</td>
<td>-</td>
</tr>
<tr>
<td>Supernumerary positions (see art. 8)</td>
<td>1</td>
<td>-</td>
</tr>
</tbody>
</table>

### Research area B: Mechatronics, Electronics and Operational Research

<table>
<thead>
<tr>
<th>Positions</th>
<th>N.</th>
<th>Topics of reserved scholarships</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Trento Scholarships</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Department of Industrial Engineering Scholarships</td>
<td>1</td>
<td>B1 - Computer animation and its applications to mechatronics: industrial automation and human rehabilitation</td>
</tr>
</tbody>
</table>
| Bruno Kessler Foundation scholarships | 2 | B2 - Silicon Photomultipliers CMOS Readout ASIC for Biomedical Applications  
B3 - Study of innovative designs and technologies for microanalytical systems |
| Position without scholarship | 1 | - |
| N. of positions | 9 | - |
| Supernumerary positions (see art. 8) | 1 | - |

**Deadline for application:** July 6, 2015, hrs. 04.00 PM (GMT +2)

**Director of the doctoral Programme:** prof. Alessandro Pegoretti - Tel. 0461 282452 – E-mail: dii.phd@unitn.it

**Website of the Programme:** [http://www.unitn.it/en/drmmse](http://www.unitn.it/en/drmmse)


**Duration:** three years

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1. Reserved scholarships can only be assigned to those candidates who will ask for and obtain the specific eligibility, see art. 6
2. Reserved scholarships can only be assigned to those candidates who will ask for and obtain the specific eligibility, see art. 6
Official language: English

Start of the Academic Year: November 1, 2015

Scientific Areas:

CHIM/07 Foundations of Chemistry for Technologies
FIS/01 Experimental Physics
FIS/03 Material Physics
MAT/08 Numerical analysis
ING-IND/12 Mechanical and Thermal Measuring Systems
ING-IND/13 Applied Mechanics for Machinery
ING-IND/14 Mechanical Design and Machine Building
ING-IND/15 Design and Methods for Industrial Engineering
ING-IND/16 Production Technologies and Systems
ING-IND/17 Industrial and Mechanical Plant
ING-IND/21 Metallurgy
ING-IND/22 Science and Technology of Materials
ING-IND/23 Applied Physical Chemistry
ING-IND/25 Chemical Plants
ING-IND/34 Industrial Bioengineering
ING-INF/01 Electronics
ING-INF/04 Automatics
ING-INF/05 Data Processing Systems
ING-INF/07 Electric and Electronic Measurement Systems
ICAR/01 Hydraulics
SECS-S/06 Mathematics for Economics, Actuarial Studies and Finance

Research fields:

Materials Science and Engineering:

- Biomaterials and biomedical technologies
- Biotechnologies and agro-food technologies
- Nanotechnologies and nanomaterials
- Surface engineering
- Structural materials, durability and lifetime prediction
- Net-shape materials
- Materials for energy and environment
- Materials and technologies for cultural heritage
- Functional materials
- Materials and technologies for food industry

Mechatronic and Mechanical Systems:

- Intelligent manufacturing
- Dynamics of mechanical systems for aerospace applications
- Intelligent vehicles and robotics
- Automated supervised driving for intelligent vehicles and transportation systems
- Human sensory-motor modelling and rehabilitation
- Virtual, physiological and computational neuromuscular human models

Electronic and Integrated Microelectronic Systems:

- Techniques and systems for energy parameter measurement
- Sensor networks
- Embedded systems design
- Sensors, detectors and microsystems
- Microelectronic technologies

Operational Research:
The positions with scholarship or other forms of financial support, including apprenticeship contracts and research grants, may be increased after the publication of this call and before the assessment of qualifications through additional funds from universities, public research institutions and/or qualified private organizations. For this reason, the increase in scholarships may change in parallel with the total number of the available positions. Any extra available positions will be posted solely on the website: http://www.unitn.it/en/ateneo/1960/announcement-of-selection

Art. 2 – ADMISSION REQUIREMENTS

Applications for doctoral positions are accepted from candidates, regardless of gender, age and nationality, who hold an Italian “Laurea Magistrale”, according to the Ministerial Decree no. 270 of the 22nd of October 2004 and subsequent amendments, a university degree of the previous regulations in force, or “Diploma accademico di secondo livello” issued by Italian Higher Education Institutions of Music, Arts and Performance, or an equivalent degree obtained abroad (Master’s degree) recognized as equivalent by the Admissions Committee for the sole purpose of access to the selection for the PhD program in Civil, Environmental and Mechanical Engineering.

Applications are also accepted from students expecting to complete their degree by October 31, 2015; in such case applicants must attach the following documents:
- a certificate of enrolment with a list of the exams successfully passed and marks obtained in each examination;
- a statement released by their thesis supervisor declaring that the student will obtain the degree by October 31, 2015.

For EU citizens the two above-mentioned documents may be substituted by a self-certification, as required by art. 46 of Presidential Decree n. 445 of 28.12.2000 and subsequent amendments, with exams taken, the corresponding grade and the expected date for the graduation examination, prepared using the Annex A only for titles that have been achieved at a public institution of the member countries of the European Union.

Admission to the Doctoral Programme for successful candidates who have not graduated yet will be “conditional” and the applicant will have to submit to the Science & Technology PhD Office (via email to: phd.office-st@unitn.it) by no later than November 6, 2015, on penalty of exclusion, the degree certificate (according to Presidential Decree no. 445 of the 28th of December 2000 and subsequent amendments, EU citizens may deliver a self-declaration using Annex A only for titles that will be achieved at a public institution of the member countries of the European Union).

Art. 3 – UNIVERSITY QUALIFICATION AWARDED ABROAD

Foreign Academic Degrees (Master’s degree) must be comparable to the “Laurea Magistrale” in terms of duration and level\(^3\). Based on this principle, the Admissions Committee will decide on their eligibility.

Applicants who have a foreign academic degree that has not been officially recognized as equivalent\(^4\) to an Italian degree (Laurea Magistrale/Specialistica/vecchio ordinamento) will be considered as requesting for equivalence in their application. In this case, it is necessary to submit the following documents:

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\(^3\) Italian: [http://www.studiare-in-italia.it/study/new-degrees.html](http://www.studiare-in-italia.it/study/new-degrees.html), English: [http://www.study-in-italy.it/study/new-degrees.html](http://www.study-in-italy.it/study/new-degrees.html)

- the degree certificate complete with examinations taken and corresponding grades (transcripts). EU citizens deliver a self-declaration, according to Article 46 of the Presidential Decree No. 445 of 28.12.2000 and subsequent amendments, by using Annex A only for titles that have been achieved at a public institution of the member countries of the European Union;
- the English translation of the degree certificate, if in a different language, with examinations taken and the corresponding grades, signed under the applicant’s own responsibility. The purpose of the English translation is solely that of allowing the Admissions Committee to evaluate the applicant’s eligibility for the selection process;
- any other documentation considered useful for evaluating the eligibility of the degree provided, in order to participate in the selection process (i.e. Diploma Supplement or Dichiarazione di Valore in Loco).

The eligibility of foreign academic degrees is assessed by the Admissions Committee, following the rules in force or the international treaties on academic degrees’ recognition. The ID candidates list whose academic degree has been considered not eligible for admission to the selection by the Admissions Committee will be made available at: http://www.unitn.it/en/ateneo/1960/announcement-of-selection. It is therefore recommended that candidates keep the ID of the application provided by the system at the end of the procedure for the application online. The publication of the list on the website is to be considered as official notification.

Admitted candidates holding an academic degree obtained outside Italy must submit to the Science & Technology PhD Office (email phd.office-st@unitn.it) by no later than January 11, 2016:

- the Diploma Supplement in English (for qualifications awarded at an institution of a country of the European Higher Education Area) according to the model developed by the European Commission, by the European Council and by the UNESCO/CEPES;
- the “Dichiarazione di Valore in Loco” (DV) (for qualifications that have been acquired in other countries) along with their degree certificate with examinations taken and grades obtained, translated and authenticated by an Italian consulate, embassy or diplomatic representative in the country where the degree was issued. The Dichiarazione di Valore must state that the degree is valid, in the country where it was issued, and enables the candidate to enrol in an academic course equivalent to a PhD Programme (third level of higher education according to the Bologna process).

Lack of such documents may result in the exclusion from the Doctoral Programme.

Art. 4 – THE DOCTORAL PROGRAMME

The aim of the Doctoral Programme is to train researchers able to operate in the following fields.

Materials Science and Engineering
The most significative research areas of Materials Science and Engineering include nanostructured materials (metallic alloys, ceramic powders, inorganic systems from sol-gel and nanocomposites), powder metallurgy, biomaterials and biomedical technologies (also developed at the BIOTech center in Mattarello), polymeric and composite materials, materials for energy (photovoltaic, solar thermal, fuel cells, hydrogen storage), materials chemistry, high-strength glasses and ceramics, coatings and surface treatments, wear phenomena, corrosion and mechanical fatigue, degradation, experimental characterization of the mechanical behaviour and numerical modeling, atomistic modeling of materials, chemical plants, microscopy (optical, electronic and atomic force), NMR, thermal analysis, microstructural and micromechanics analysis through X-ray diffraction.

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5 The Diploma Supplement accompanies a higher education diploma, providing an improvement in international “transparency” and a promotion of the academic and professional qualifications obtained (diploma, degrees, certificates, etc.). The Diploma Supplement must be issued by the same institution that issued the qualification. Further information at: http://ec.europa.eu/education/lifelong-learning-policy/ds_en.htm
7 if the above mentioned Dichiarazione di Valore is not ready within the deadline, a document proving that the request of release has already been submitted to the diplomatic representative; in such case the candidate must submit the Dichiarazione di Valore at the earliest convenience.
Within the Research Area of Materials Science and Engineering it is possible to do the thesis in co-supervision (Dual PhD program) with the University of Colorado Boulder (USA) or the University of Texas at Arlington. In both cases the duration of the programme is 4 years.

Mechatronic and Mechanical Systems
The research activities on Mechatronic and Mechanical Systems are based on a multidisciplinary approach reflecting the most advanced developments of the Concurrent Engineering approach. Among the research topics, the following can be listed: autonomous vehicles and robots, intelligent machine tools and machining processes, product innovation, modeling, simulation and control of process, modeling and simulation of mechatronics system, measurement systems and sensor data fusion, accessibility and assistance systems, modeling of the human movements, mechanisms for space applications, numerical analysis and SW development for dynamic simulation and optimization, control and identification of linear, non-linear and hybrid dynamic systems.

Electronic and Integrated Microelectronic Systems
The main research activities in the area of Electronic Systems and Integrated Microelectronic Systems are focused on the design and development of systems for the acquisition, elaboration and management of signals and information useful to solve problems of industrial and social relevance. Microelectronics, microsensors and systems embedded in automation devices, biomedical instrumentation, advanced research tools (such as detectors for elementary particle physics), systems for vigilance and assistance, systems on chip (SoC) and ultra-low power, methodologies for data acquisition, elaboration and distributed measuring systems, can be listed among the current research fields.

Operation Research
Operation Research represents a research field in which models are developed to support decisions and to analyze the economic efficiency, productivity and quality of industrial processes; techniques are developed for the mathematical optimization and computer simulation; information technology tools are assessed for the management and decisions support; criteria for the risk and uncertainty assessment in problem solving are provided.

The subject of the research project to be attached to the application (see next Art. 5) must fall in one of the research areas of interest of the Doctoral programme, preferably on one of the specific topics (research subjects) of the 31st cycle of the PhD programme and listed, with its proponents, at the following webpage: http://www.unitn.it/en/ateneo/1960/announcement-of-selection

Educational programme
During the three-year course the syllabus requires different activities, with a more intense attendance of classes during the first and second year.
The Doctoral Programme requires 180 credits: 140 assigned for the research activity and 40 for educational activities.
Research credits are awarded by completing the dissertation, whereas educational credits can be obtained by attending:
- courses selected among those listed in the Manifesto of Studies;
- courses offered by other Institutions;
- schools, workshops and seminars organized within the Doctoral Programme or in other Institutions.
Such activities must be certified, based on the attendance and achievement of specific educational objectives.
The purpose of the educational activities is to provide doctoral students with an advanced background on the main concepts of Materials Science and Engineering, Mechatronics, Electronics and Systems Engineering.
The target of the Doctoral Programme is to provide doctoral students with qualified skills in engineering, useful to work in research centers or in companies as well.
One of the aims of the Doctoral Programme is to allow the students to achieve a complete maturity and autonomy in planning, programming, developing and reporting their research activity.
To be admitted to the second and third year, students are required to pass an examination. The student is asked to hold a seminar on the research topics concerning his/her dissertation. The seminar is public and it should be held in front of a commission, whose at least two members are appointed by the Doctorate Committee. The final judgment of the commission will be based on the presentation, quality and advancement of the research work, ability of the student in answering to the commissions’ and audience’s
The denial of the admission to the following year implies the exclusion from the Doctoral Programme and forfeiture of the scholarship.

Within the third year doctoral students should take an examination, similar to the exam for admission to the second and third year, which qualifies him or her to access the final examination. Doctoral students on a co-tutelle programme, requiring to spend a period of research in a foreign university, may be asked to follow a specific research programme.

Art. 5 – APPLICATION

Applying for the Doctoral Programme requires an online application process, and involves two stages:

1) Registering on the University's website at [http://www.unitn.it/en/account](http://www.unitn.it/en/account) by entering the information requested. If the registration has been correctly submitted, within a maximum of 2 working days the applicant will receive a username and password by email, which will be required in order to use the UNITN's online services;

2) Filling out the application, complete with the requested attachments in electronic format, available at [http://www.unitn.it/en/apply/dott](http://www.unitn.it/en/apply/dott)

The application shall be subject to the payment of an application fee - non-refundable - amounting to € 15 to be paid by credit card, according to the instructions given in the appropriate section of the Application online.

The application must be completed and submitted by 4.00 PM Italian time of July 6, 2015. Please, make sure you have received the email notifying the correct closure of the Application online. The University refuses any liability for all those applications online not properly completed, closed and submitted by candidates.

Candidates are strongly recommended not to wait until the last days before the deadline for submitting their application. The University assumes no liability for any malfunctions due to technical problems or the overloading of the communication line and/or systems application or for the loss of documents due to incorrect addressing by the candidate or late notification of change to the address indicated in the application, nor for any errors attributable to acts of third parties, to unforeseeable circumstances or force majeure. The online application is considered to be a self-declaration of personal data and qualifications declared with full legal effect.

It is the sole responsibility of the applicant to submit a correct and complete application. Applications not submitted using the online procedure as specified in this article, incomplete applications and applications lacking of the mandatory attachments, included the payment of the application fee, shall not be considered valid and therefore automatically discarded.

The ID candidates list whose applications are found incomplete, and are consequently excluded from the selection, will be published at [http://www.unitn.it/en/ateneo/1960/announcement-of-selection](http://www.unitn.it/en/ateneo/1960/announcement-of-selection). The publication on the website is to all intents and purposes valid as notification of exclusion from this selection.

All applicants are admitted to the selection procedure conditionally upon ascertainment that they fulfill the admission requirements. The University of Trento has the right to verify the documents delivered pursuant to articles 71 et seq. of the Presidential Decree no. 445 of December 28, 2000. The University can at any time, even after enrolment and upon justified reasons, decide for the exclusion of candidates lacking the requirements specified in the present call. According to Italian Law No. 104/92, Article 20 and to Italian Law No. 68/99, Article 16 (1), applicants with special needs or affected by learning disabilities are expected to indicate explicitly in their application whether they require special assistance or extra time during the selection. Under Legislative Decree 196/03, all information in this respect will be kept confidential.

During the filling out of the application online candidates must choose which Research area(s) (max. 2, specifying the order of preference) they are interested to apply for. If a candidate is short-listed in more than

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8 The candidate has the option of filling out the application in either Italian or English.
one research area, he/she will be enrolled in the research area that was selected as first choice in the application online and deleted from the other ranking. Candidates who select more than one Research area in the application online, will be required to attach a statement of purpose and a research project for each area.

**MANDATORY ATTACHMENTS** (failure to upload one or more mandatory attachments will result in the exclusion from the selection):

1) **identity document:** a photocopy of the applicant’s ID (for EU citizens) or passport, specifically the pages with photo, personal data, number of the ID document, place and date of issue, and expiry date.

2) **Degree certificate:**
   - **Applicants with an Italian degree:**
     a self-declaration *(by using Annex A)*, according to Article 46 of the Presidential Decree No. 445 of 28.12.2000 and subsequent amendments, stating the possession of a degree (see Article 2 of this call), “Classe di Laurea”, awarding date, issuing University, final grade, examinations taken and grades obtained.
   - **Applicants with a foreign qualification:**
     copy of the degree certificate with examinations taken and grades obtained or equivalent certification, stated in Article 3 of this call. If the qualification has not been officially recognized as equivalent to an Italian degree, the applicant must also submit a translation into English (if in a different language other than Italian or English), of the degree certificate accompanied by a list of the examinations taken and grades obtained. Such translation must be undersigned by the applicant, under his/her own responsibility in order to enable the Admissions Committee to declare the degree’s equivalence for the sole purpose of being admitted to this selection. In order to facilitate the evaluation of the equivalence, it is highly recommended that students with foreign qualifications submit a Diploma Supplement or the Dichiarazione di Valore in Loco, if available.
   - **Applicants who expect to be awarded their degree by October 31, 2015 and are therefore “conditionally” admitted to the selection:**
     - a certificate of enrolment with a list of the exams successfully passed and marks obtained in each examination
     - a statement by their thesis supervisor declaring that the student will obtain the degree by October 31, 2015.

For EU citizens the two above-mentioned documents may be substituted by a self-declaration, as required by art. 46 of Presidential Decree n. 445 of 28.12.2000 and subsequent amendments, with exams taken, the corresponding grade and the expected date for the graduation examination, prepared using the Annex A only for titles that have been achieved at a public institution of the member countries of the European Union.

3) **summary of the final thesis** (written in English for foreign applicants) explaining the reasons for the choice of the subject, the research methodology and the results obtained (max. 4 pages);

4) **curriculum vitae et studiorum in English**, preferably using the Europass format:

5) **statement of purpose**;

6) **a description of the research project** *(max. 4 pages)* within a research field of the Doctoral Programme, preferably on one of the research subjects of the 31st cycle listed at the following link:

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11 The Diploma Supplement accompanies a higher education diploma, providing an improvement in international “transparency” and a promotion of the academic and professional qualifications obtained (diploma, degrees, certificates, etc.). The Diploma Supplement must be issued by the same institution that issued the qualification. Further information at: [http://ec.europa.eu/education/lifelong-learning-policy/ds_en.htm](http://ec.europa.eu/education/lifelong-learning-policy/ds_en.htm)
Candidates applying for scholarships on reserved topics must attach a research project on that specific subject; during the interview the specific eligibility to this subject will be assessed. Candidates who have been awarded a scholarship for a reserved topic must accept it.

OPTIONAL ATTACHMENTS:
- List of research outputs;
- any certificates attesting the knowledge of foreign languages;
- any other documents useful to assess the research skills of the applicant (prizes, scholarships, postgraduate research and work activity, recommendation letters, etc.)

Only documents in English or Italian will be taken into consideration for the selection by the Admissions Committee.

The University will accept any additional documents to the submitted application if sent by email to ateneo@unitn.it (Subject: “Application ID number- candidate’s Surname and Name- Doctorate in Materials, Mechatronics and Systems Engineering, cycle 31 – Supplement to application”) within July 6, 2015. Additional documents submitted by different means will be disregarded.

Art. 6 – SELECTION

The selection process is designed to assess the candidate’s knowledge and aptitude towards scientific Research with special regard to the selecter research area/s. The selection consists of:
- an evaluation of titles assessing the qualifications of the candidate according to Art.5 of this call;
- an oral examination.

The Admissions Committee can assign each candidate a total score of 60 as follows:
- 30 points for the assessment of qualification;
- 30 points for the oral examination.

Candidates obtaining a minimum score of 18/30 for the assessment of qualifications will be admitted to the oral examination. The list of the candidates admitted to the oral examination will be published on the website: http://www.unitn.it/en/ateneo/1960/announcement-of-selection

The oral examination is designed to assess the candidate’s basic knowledge about the Doctorate scientific areas, specifically to that referred to in the research project, to discuss past research and professional experience, and qualifications presented. Candidates who wish to be eligible for the reserved scholarships must make an explicit request to the Examination Committee before the oral examination at the time of identification. Competences on the specific subject of the reserved scholarship/s will be assessed during the interviews of interested applicants. The oral examination is successfully passed with a minimum of 18/30 point score and will also evaluate the candidate’s knowledge of English.

In order to be allowed to oral examination the candidate must provide a valid ID/passport with photo. At least 20 days before the date of the examination, time and location of the examination will be published on the website: http://www.unitn.it/en/ateneo/1960/announcement-of-selection

Applicants residing or domiciled abroad, or otherwise unable to proven reasons to take the interview in person, may ask to the Admissions Committee at the time of filling out the application online, to conduct the oral examination in another seat by video-conference. In the case of admission to the oral examination, the candidate shall execute the request by sending, within 3 days from the date of publication of the outcome of the assessment of qualifications, to dii.phd@unitn.it an address at a university or diplomatic seat together with the name of an officer who can identify him/her before the interview. To do this the applicant will have to use the form available at: http://www.unitn.it/en/ateneo/1960/announcement-of-selection

The possibility of using this procedure is subject to the approval of the Admissions Committee after verification of technical feasibility. The Committee will guarantee that all the regularity requirements are fulfilled during the examination (verifying the candidate’s identity and the accuracy of the interview).

Art. 7 - ADMISSIONS COMMITTEE AND RANKINGS
The Admissions Committee is appointed by the Rector upon advice of the Doctoral Committee. It will consist of at least three members chosen among Italian and foreign professors and researchers, who are experts in the scientific areas of the Doctorate. The Committee may also include up to two experts, who may be foreign, from public and private research institutes.

At the end of the selection procedure the Admissions Committee will draw up one ranking for each Research area listed in art. 1. Positions will be assigned following the order of each ranking. Scholarships will be assigned following:
1. the order in the ranking;
2. the eligibility of the candidate for reserved scholarships.

Please note that reserved scholarships are assigned to the discretion of the Admissions Committee and, where possible, according to the preference expressed by the candidate before the oral examination. The non-allocation of scholarships on reserved topics will result in the reduction of the positions listed in art. 1.

The final rankings will be published at: http://www.unitn.it/en/ateneo/1960/announcement-of-selection with the ID of the application as a reference. It is therefore recommended that candidates keep the ID to check their outcome.

Successful applicants will not receive any personal communications about the outcome of the selection. With reference to each Research area, should any scholarships not reserved for specific topic remain, these are assigned to candidates of other curricula, respecting their score. In case of a tie, provisions in art. 10 are applied.

With reference to each Research area, should any scholarships reserved for specific topic remain, these are not assigned.

Residual positions without scholarship are not attributed to other rankings.

Art. 8 - ADMISSION TO THE DOCTORAL PROGRAMME AND ACCEPTANCE OF THE POSITION

Applicants will be admitted to the Doctoral Programme according to their position in the final rankings until all available positions in each research area have been filled. In the case of applicants holding the same position: for scholarship-assisted positions, evaluation will be made of the applicants’ personal economic statements according to the D.P.C.M. of 9 April 2001 and subsequent amendments. For positions not covered by scholarships the applicant younger in age will be given preference. If a candidate is short-listed in more than one research area, s/he will be enrolled in the Research area that s/he selected as first choice in the application online and deleted from the other ranking.

If a successful applicant withdraws before the beginning of the course (November 1, 2015), the next applicant on the reference ranking will be offered the place. The latter must submit his/her acceptance within 4 days starting from the next day after the communication from the Science & Technology PhD Office is sent. This communication will only be sent via email to the address indicated in the application online, so candidates are asked to check their email in order to see the possible takeover.

If a successful applicant withdraws or is excluded during the first three months of the first year of the course, the Doctoral Committee may decide to fill the vacant place with the next available candidate on the reference ranking.

Please note that it is not possible to remain in the Programme in case of renouncement to a reserved scholarship.

According to art. 20, paragraph 3 of the University Regulations for Doctoral Programmes, no more than 2 supernumerary candidates may be admitted without scholarship from the University, after passing the selection procedure, if they fall under one of the following types:

a) short-listed applicants from non-EU countries who have been awarded any kind of scholarship (i.e. by the Ministry of Foreign Affairs or the Government from which the candidate comes from, or International Institutions);
b) short-listed applicants from a country with a specific intergovernmental agreement with Italy, on the basis of a bilateral agreement between the University of Trento and the foreign university, with no obligatory financial burden for the University of Trento;

c) holders of research fellowships (Assegno di ricerca, art. 22 of Italian Law 240/2010) already awarded at the start date of the Doctoral Programme, after verification of the appropriateness of the research topic by the Doctoral Committee;

d) Italian civil servants or under Italian public law regime. Admission is subject to the passing of the selection procedure and placement on leave under Article 2 of the Law of 13 August 1984 no. 476 and subsequent amendments.

Public employees who have already obtained the title of Doctor of Philosophy, or civil servants who have been enrolled in the doctorate for at least one academic year, benefiting from a leave regardless of the research scientific area, are not entitled to special leave with or without scholarship.

Admitted applicants must send the acceptance of the position using the form downloadable at [http://www.unitn.it/en/ateneo/1928/enrollment-1-2-3-year](http://www.unitn.it/en/ateneo/1928/enrollment-1-2-3-year) to the following address:

**Università degli Studi di Trento**
**PhD Office – Science and Technology**
**Via Sommarive, 14 – 38123 Trento (ITALIA)**
**Email phd.office-st@unitn.it**


Applicants admitted without scholarship is granted a longer period of time in order to wait for the possible award of PhD scholarships in case of rejection of the place or renunciation of the scholarship by other applicants.

Please note that the acceptation must include the payment of stamp duty and, where applicable, the payment of the "provincial tax for the right to higher education" - TDS.

Admitted applicants who do not accept the position within the above mentioned deadlines will lose their right to enrol and their places will be offered to the next candidates on the relevant ranking.

Applicants who wish to assert their requirements for supernumerary positions shall request, by submission of appropriate documentation proving their status via e-mail to [phd.office-st@unitn.it](mailto:phd.office-st@unitn.it), such admission within 8 days starting form the next day of the publication of the ranking lists. Supernumerary admission is disposed within the limit of the number of supernumerary positions listed in the specific Research Area in art. 1.

**Art. 9 – ENROLMENT ON THE PHD PROGRAMME**

The official registration in the PhD Programme, limited to short-listed candidates who have accepted the place with the procedures set out in the preceding article, will automatically be formalized as soon as the PhD Programmes’ requirements check set up by the Ministry of Education, University and Research for the AY 2015-2016 has been completed. In case of accreditation not confirmed, candidates who have accepted the place will receive a timely notification via email and the fee for the Right to Education (TDS) will be refunded.

**Art. 10 – SCHOLARSHIPS**

Scholarships are assigned on the basis of the ranking of applicants drawn up by the Admissions Committee, on request of the applicant. The candidate who has been awarded a scholarship on a specific reserved topic, must accept it as the option for reserved scholarships he/she made in the application online implies the preference of the candidate for the award of that specific scholarship with respect to the others. The renunciation of the reserved scholarship implies the exclusion of the candidate from the right to enrol in the

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12 Please note that the total amount of TDS + duty stamp must be paid only by credit card following the instruction. At page [http://www.unitn.it/en/ateneo/1931/education-tax-tds-and-revenue-stamp](http://www.unitn.it/en/ateneo/1931/education-tax-tds-and-revenue-stamp) you can check if you can be exempted from TDS.
PhD programme. In case the candidate refuses the scholarship, it will be offered to the next candidate in the reference ranking; in the case of a scholarship on a specific topic, it will be offered to the next successful candidate on the ranking having obtained the eligibility for that specific subject.

The gross amount of the Ministerial Scholarship is Euro 13,638.47 per year. Scholarships are normally paid bi-monthly in advance, with the exception of undue payments in case the student is expelled or suspended and the first installment of the calendar year (January-February), which is paid at the end of January.

The scholarships cannot be combined with other grants, except those awarded by national or foreign scientific institutes for periods spent abroad that are deemed useful for the research activities of the student. The scholarship will be increased by 50% for research periods spent abroad that are authorized by the Director of the Doctoral Programme or by the Doctoral Committee, for periods lasting minimum 1 month and maximum 18 months.

From the second year of the course each student is provided with a budget for research activity not less than 10% of the ministerial scholarship.

The scholarship is conferred for the entire duration of the Doctoral Programme, conditional upon a positive evaluation of the Doctoral Committee at the end of each study year.

Failure to attend the Programme for over thirty days will result in suspension of the scholarship.

If during the year a student decides not to continue his/her studies, he or she forfeits the right to use the scholarship. Those who have already benefited, even partly, of an Italian doctoral scholarship cannot be granted another one.

**Art. 11 - RIGHTS AND DUTIES OF DOCTORAL STUDENTS**

The admission to the Doctoral Programme implies the full-time exclusive engagement of the PhD student. Students enrolled in the Doctoral Programme must attend the programmes, seminars, lessons and teaching units, carry out research and study activities on a full time basis in the structures designated for these purposes and submit a report on the research work done to the Doctoral Programme Committee at the end of each year of study.

Students participating in a co-tutorship programme are obliged to carry out study and research activities in compliance with the agreement established with the foreign university.

The Doctoral Programme Committee may decide to exclude PhD students from the Doctoral Programme with the resulting forfeiture of the study fellowship in the following cases:

a) insufficient marks in the possible evaluation exams in itinere during the 3 years of the Programme;

b) negative opinion given by the Doctoral Programme Committee regarding admission to the successive year of study; in this case, the Doctoral Programme Committee will verify achievement of the results required for the current year as well as the assiduousness and commitment demonstrated by the student in the research work done;

c) the student accepts employment contracts without authorization by the Doctoral Programme Committee;

d) unexcused and extended absences.

Doctoral students awarded a scholarship financed by external bodies and related to a specific research activity must carry out that specific activity.

For the entire duration of the Doctoral Programme, doctoral students are insured by the University against accidents and civil liability that may occur in circumstances pertaining to the Doctoral Programme.

According to art. 2, paragraph 1 of the Law 476 issued on the 13th of August 1984 and subsequent amendments, a public service employee admitted to the Doctoral Programme may request unpaid leave for reasons of study for the whole duration of the doctoral course and may benefit from the scholarship, if the required conditions are met. In the case of admission to a doctoral course without a scholarship, or if the candidate has declined the scholarship, the employee on leave may benefit from the economic remuneration and social insurance and retirement benefits enjoyed by the public administration where he/she is employed. Should the employee terminate the contract in public administration in the two years succeeding his/her having obtained the doctoral degree, the amounts paid during the course of the doctoral studies will be claimed back.

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13 At the date of publication of the present call, Italian law (art. 2, par.26 of Law 335/95 and subsequent modifications) states that scholarships are subject to pension fund contributions (INPS) starting from 01/01/2015, of 23.50% or 30.72%, of which 1/3 will be charged to the candidate.

14 For further information refer to the mentioned law.
Art. 12 – DOCTORAL DEGREE AWARD

The doctoral degree, or Ph.D., conferred by the Rector, is awarded when students pass the final examination at the end of the Doctoral Programme. The Examination Committee will be nominated by the Rector, upon advice of the Doctoral Committee and in accordance with the University Regulations for Doctoral Programmes. The issue of the degree certificate is conditional upon the candidate uploading the University open access archive with a copy of his/her final thesis. The University archives will ensure public accessibility and the proper conservation of the thesis. The University will provide the National Libraries in Rome and Florence with a copy of the thesis, as required by Italian law.

Art. 13 – INTELLECTUAL PROPERTY OF RESEARCH RESULTS AND PUBLICATIONS

Referring to copyright protection (D.lgs. 633/1941 and subsequent amendments) the use of results obtained during the research activities in the Doctoral Programme, carried out with scholarships supported by an external authority may receive restrictions due to financial agreements of which the Doctoral Students will be informed at the moment of the assignment of the scholarship.

Art. 14 – PERSONAL DATA

The University of Trento, abiding by Legislative Decree 196/2003 and subsequent amendments, shall use the personal data of the candidates only for the purpose of the selection procedures and for institutional reasons. Participation in the present selection entails, in observance of the above-mentioned law, that the applicant allows the University of Trento to publish his/her personal data concerning the results of the selection procedure on the University website. Data are treated by the University of Trento, via Calepina, 14 – 38122 Trento (Italy).

Art. 15 – REFERRAL RULE

For matters not explicitly mentioned in the present announcement, please refer to art. 4 of Law no. 210 of 3.07.1998 as amended by Article 19, paragraph 1, of the Law of 30.12.2010, n. 240, to Ministerial Decree no. 45 of 08.02.2013 and to the University Regulations for Doctoral Programmes issued with the Rector's Decree no. 383 of 04.07.2013 and subsequent amendments.

On behalf of
The Rector
The Head of Education and Student Services
Dott. Paolo Zanei

13
ANNEX A

Declaration substituting

DEGREE CERTIFICATE
(Art. 46 - lettera l, m, n - D.P.R. 28 dicembre 2000, n. 445)

The undersigned ________________________________________________________________

Place of birth (city+country) ______________________________ date of birth _______________

Official residence (street, number, zip code, city, country) _______________________________________

___________________________________________________ ___________________________________

Mobile ___________________________ e – mail _______________________________________

aware of the penal sanctions pursuant to Art. 76 of the Italian Presidential Decree no. 445 of 28.12.2000 for falsifying documents and making mendacious declarations

DECLARES

A) To have graduated in: ________________________________________________________________

Graduation Date: ____________________________________________ with mark ___________ out of __________

Type of degree: □ Master’s degree
□ Laurea specialistica/magistrale
□ Italian University degree of the previous regulations in force
□ Other (specify) _______________________________________________________________

University of: ________________________________________________________________

City and Country: ________________________________________________________________

and to have passed the following exams (fill in the subsequent Part C, mandatory)

OR ALTERNATIVELY

B) To have not graduated yet, and to be aware that admission to the PhD Programme is conditional upon the presentation of the degree certificate by the scheduled date in the call.

Currently studying (subject) ___________________________________________________________

Type of degree: □ Master’s degree; □ Laurea specialistica/magistrale; □ Italian University degree of the previous regulations in force
□ Other (specify) _______________________________________________________________

At the University of: __________________________________________________________ Country: _______________

Expected date for final degree defense: _____________________________________________

and to have passed the following exams (fill in the subsequent Part C, mandatory)
Part C: list of examinations passed and registered at the above mentioned University (all data are mandatory):

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Date __________________   Signature________________ ________________________

"Clear signature in full"

This declaration is exempt from stamp duties, pursuant to Art. 37 of the Italian Presidential Decree no. 445 of 28.12.2000.

*The present declaration does not require authentication of the signature nor the signature should be affixed in the presence of the person assigned to receive the document. If sent, the signatory should add a copy of his own identification document to the present certificate.