



# CALL FOR APPLICATIONS

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## Admission to the Doctoral Programme in

### Physics

### 40th cycle

### ACADEMIC YEAR 2024/2025

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**N.B. Please note that only the Italian version of the present call issued with Rector's Decree no. 382 of 11.04.2024 is legally binding; the English version is provided for information only**



### Art. 1 – SUBJECT OF THE CALL

The University of Trento opens the call for applications for the admission to the 40th Cycle (Academic Year 2024/2025) of the Doctoral Programme in “Physics” (in collaboration with the National Institute for Nuclear Physics - INFN). The specific agreement signed between the University of Trento and the National Institute of Nuclear Physics - INFN regulates the relationships, contributions and commitments of the Parties, the organization of the Course, the management of financial resources and the teaching resources made available by the partner entity.

**Deadline for application: May 15<sup>th</sup>, 2024, hrs. 4.00 PM +** (Italian time, GMT +2)

**Positions:** no. 17

**Scholarships:** no. 14 (of which 10 on reserved topics)

**Positions without scholarship:** no. 3

**Supernumerary positions without scholarship:** no. 2 (see art. 8)

Positions are divided as follows:

Financer	No. of scholarships	Possible reserved topic
University of Trento	4	
Additional position supported by a scholarship under the Italian National Recovery and Resilience Plan (NRRP) Mission 4, component 2	1	A - see description in the next PNRR section
INAF - National Institute for Astrophysics	1	B - Ultra Fast Outflows from AGN accretion discs in the X-ray calorimeter era
Department of Physics	1	C - Dissipative quantum chaos at the interface of cold atoms and gravity theory
INFN - National Institute for Nuclear Physics	3	D - E - Particle, astroparticle, nuclear, theoretical physics, related technologies and applications, including medical Physics F – Particle Acceleration on A Chip
FBK – Bruno Kessler Foundation	4	G - Development and applications of TERS and TEPL techniques to study semiconductor materials for quantum technologies H - Dopant Characterization in Silicon Carbide (SiC) Semiconductors: Towards Enhanced Electronic Devices I - Photonic quantum-gate based planar lightwave circuits J - Integrative AI for event selection at LHC
Positions without scholarship	3	
<b>Positions overall</b>	<b>17</b>	
Supernumerary positions without scholarship (see art. 8)	2	

According to the Directorial Grant Decree 962 of the 30/06/2023, **no. 1 additional position is offered, supported by a scholarship under the Italian National Recovery and Resilience Plan (NRRP) Mission 4, component 2 – Investment 1.1**

The research projects related to the individual scholarship referred to in the previous paragraph must comply with the following requirements set forth by the NRRP funding:

- a) be coherent with the EU Regulations 2021/241 goals and purposes, with the NRRP general strategy and the specific NRRP mission;
- b) be focused on achieving the results possibly set by the NRRP targets and milestones;
- c) be compliant with the principle of “do not significant harm” (DNSH) according to art. 17 of the EU Regulations 2020/852 and with the technical directions given by the European Commission (European Commission Notice 2021/C58/01);
- d) be suitable to deal with and to fill the gap of gender inequality;
- e) support the participation of women and young people in the management of the NRRP, also according to the Legislative Decree of May 31, 2021, no. 77 (so called Decreto Semplificazioni), as modified by Conversion Law of July 29, 2021, no. 108.

The selection and the assignment of the additional scholarship can be only on the specific reserved topic described in the attachment “Research subjects” available at the selection webpage, and summarized as follows:

Project	N.	Department	Topics of reserved scholarships
Progetto PRIN 2022 “PHeSCAMI – Pressurized Helium Scintillating Calorimeter for AntiMatter Identification” Codice Progetto: 2022LLCPMH CUP: E53D23002100006	1	Physics Department	A - Development of innovative techniques for anti-matter identification in Cosmic Rays

The applicants are aware that the scholarship will be revoked in case:

- there are differences in the realisation of the doctoral path compared to the financed project, in case there is no approval of the changes from the Ministry.

The scholarships dedicated to specific research topics (reserved positions) may be assigned only to those applicants who specifically apply for them. Applicants interested in one or more reserved positions must therefore carefully check on the [selection webpage](#) the topic and the required skills, and if the scholarships entail the acceptance of confidentiality commitment and/or transfer of intellectual property rights.

The positions with scholarships or other financial support may be increased after the publication of this call till the assessment of qualifications. All the new positions available will be posted solely on the selection webpage.

**Additional positions:** scholarships which will be made available after the publication of this call (and published on the selection webpage) can be selected by using the entry “Other” in the proper section of the online application, and indicating in the specific field the title of the scholarship, possibly modifying the order of preference.

Applicants who have already completed and sent the application before the publication of additional scholarships, can apply for those scholarships sending an e-mail to the secretariat of the Phd Programme (phd.physics@unitn.it), mentioning the new order of preference if necessary. The interest in additional position must also be expressly communicated to the Selection Committee before the interview.

Moreover, applicants selected by special committees for admission related to specific international mobility programmes in which the University of Trento participates, may also be admitted to the 40th Cycle in additional positions.

**Duration:** Three years

**Start of the Academic Year:** November 1st, 2024

**Official language:** Italian and English

**Selection webpage:** Announcement of selection [PhD Physics - first call](#)

**Doctoral Programme webpage:** <https://www.unitn.it/drphys/en> (information on the Programme, admission to subsequent years and to the final examination)

- [Rights and duties of doctoral students](#)
- [Info about doctoral scholarships](#)
- [Scientific areas](#) (with reference to the Italian Ministerial classification)

FIS/01	Experimental Physics
FIS/02	Theoretical Physics, mathematical methods and models
FIS/03	Physics of Matter
FIS/04	Nuclear and Sub nuclear Physics
FIS/05	Astronomy and Astrophysics
FIS/07	Applied Physics (for the environment, biology, medicine and cultural heritage)
FIS/08	Teaching and History of Physics
CHIM/03	General and inorganic Chemistry

**Important:**

- a. The dates of the selection and all selection results (interim and final), the possible exclusion from the selection due to an incomplete application (art. 3), the exclusion for foreign qualification not recognized as suitable (art. 2), and any notices related to the call will be published only on the selection webpage; the applicants will be identified through the **application ID therefore it is recommended to keep track of it**. The publication on the website is to all intents and purposes valid as official notification, and no personal communication will be sent.
- b. Possible communication related to the call for selection will be sent by e-mail to the applicant's personal e-mail address connected to the account registered by the system when closing the application. Applicants with an active or just concluded career at the University of Trento are advised to check their personal e-mail address at the link: [Profile data for account](#). In case you need to change your personal e-mail address after the application closure, please send a request to the Doctorate Office S&T (phd.office-st@unitn.it).

**Art. 2 – ADMISSION REQUIREMENTS**



1. Applications for doctoral positions are accepted from applicants, regardless of gender, age and nationality, who hold:
  - a. an Italian “Laurea Magistrale” or “Laurea Specialistica”, according to the Ministerial Decree no. 509 of 03.11.1999, subsequently amended by Ministerial Decree no. 270 of 22.10.2004;  
or
  - b. a university degree obtained at an Italian Institution belonging to the AFAM system (Alta Formazione Artistica e Musicale);  
or
  - c. an equivalent foreign degree (*Master’s degree*) obtained at an officially recognized academic institution, valid for admission to Doctoral studies in the Country it has been issued (except for substantial differences) and similar (duration and level) to the Italian degree, recognized as eligible<sup>1</sup> by the Selection Committee for the sole purpose of accessing this specific Doctoral Programme<sup>2</sup>.
2. Applications are also accepted from students expected to obtain the necessary degree **by October 31<sup>st</sup>, 2024**. Admission to the Doctoral Programme for successful applicants who have not yet graduated will be “conditional” and the applicant will have to submit to the Doctorate Office S&T (via e-mail to: [phd.office-st@unitn.it](mailto:phd.office-st@unitn.it)) **by November 8<sup>th</sup>, 2024, on penalty of exclusion**, the certificate awarded or a self-declaration (using the [Declaration substituting Degree Certificate](#) also available in the specific section of the online application).
3. Applicants with a foreign qualification that has not been officially recognised as **equivalent<sup>3</sup>** to a second cycle Italian degree (*Laurea Magistrale/Specialistica/vecchio ordinamento*) will be considered as **requesting equivalence in their application**, by attaching the necessary supporting documents.  
It is in the applicant’s interest to provide all the elements useful for the assessment, especially if the education system of the country where the qualification was obtained is not comparable to the Italian one.  
The Selection Committee may require the applicant to provide additional documentation if deemed necessary for the purpose of assessing the eligibility.
4. Applicants who have already obtained the Doctoral degree will be admitted to attend a second Doctoral Programme, after passing the selection procedure, provided that the prevailing subjects and scientific areas are different from those relating to the previous Doctoral degree. Applicants who have already benefited from a scholarship, even partially, cannot be assigned any scholarships in the new Doctoral Programme.

### Art. 3 – APPLICATION PROCEDURE

1. The application<sup>4</sup> must be **completed and submitted by hrs. 04.00 p.m. Italian time of May 15<sup>th</sup>, 2024, exclusively through the online system: [Doctoral Programmes Applications](#)**  
Authentication to the registration procedure is possible through:
  - **SPID<sup>5</sup> or CIE (Electronic ID)**; applicants who own an Italian tax code and an Italian ID must access the registration procedure using the CIE (Electronic ID) or SPID, the Italian Public Digital Identity System, which automatically certifies the applicant’s identity on the UniTrento systems and sets up an account as @unitn.it (more info about CIE at this link <https://www.cartaidentita.interno.gov.it/en/home/>). To request a SPID identity please visit the webpage: [How to activate the SPID identity](#);
  - **University of Trento account**: those who do have a University of Trento account can access the application procedure with their existing username (name.surname@guest.unitn.it, or name.surname@unitn.it). Please follow the procedure [password reset](#) if you **forgot your password**. Further information on UniTrento username and password at [Account@unitn.it](#)
  - **a UniTrento "guest" temporary account**: only those who do not have an Italian tax code or a University of Trento account can set up a temporary "guest" account. After the matriculation, this account will be converted into a final one as @unitn.it. Procedure at: [Account registration info](#)<sup>6</sup>.
2. To finalize the application a non-refundable **application fee of € 15** is to be paid through **PagoPA payment system<sup>7</sup>** according to the instructions given in the appropriate section of the online application (“Application fee”).  
The online application can be saved and modified several times until the final submission. Thereafter it can no longer be changed.

<sup>1</sup> The eligibility of foreign academic degrees is assessed by the Selection Committee, following the rules in force or the international treaties or recognition of academic qualifications.

<sup>2</sup> Details at: <http://www.cimea.it/en/servizi/il-sistema-italiano-di-istruzione-superiore/qualifiche-del-sistema-universitario.aspx>.

<sup>3</sup> For further information see at <http://www.cimea.it/en/servizi/procedure-di-riconoscimento-dei-titoli/procedure-di-riconoscimento-accademico-dei-titoli.aspx>

<sup>4</sup> The applicant can choose either Italian or English to fill in the application online.

<sup>5</sup> For more info visit the website: <https://www.spid.gov.it/en/what-is-spid/>

<sup>6</sup> Applicants are advised to register well in advance of the deadline. The issue of credentials (username and password) may require up to three working days. Those who already hold a UniTrento account but forgot the password can request a new one at: <https://webapps.unitn.it/password1/en/pwdut/PasswordRecovery>

<sup>7</sup> Further information about PagoPA service at: <https://www.unitn.it/en/phd-pagopa>



3. **The online application is considered to be a self-declaration of personal data and qualifications with full legal effect.** It is the sole responsibility of the applicant to make sure that the online application has been successfully submitted and an e-mail notification has been received. There will be no liability with the University in the event that an application is not submitted correctly.
4. When filling in the application online, applicants may choose up to a maximum of **n. 3 reserved scholarships** they want to be evaluated for, specifying the order of preference. The order of preference is not binding for the Committee: during the oral examination the specific eligibility of the applicants will be evaluated.

Applicants must express their interest for reserved scholarships that will be made available after the opening of the present call (additional scholarships), according to the instructions given above.

**Important:** the applicant's choice to compete also for the reserved scholarships implies a preference on his/her part for the awarding of that specific scholarship over the others.

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

A. **Identifying document (ID):**

A copy of the applicant's valid **identity card** (only EU citizens) or **passport** (non-EU citizens), in particular of the pages reporting his/her photograph, personal data, number, place and date of issue, expiry date and signature;

B. **Academic degree for admission to the Doctoral Programme:**

a. **Italian qualification:**

- **already obtained/to be obtained: a self-declaration**, in accordance with Presidential Decree art. 46 no. 445 of 28.12.2000 and subsequent amendments, declaring the possession of a degree (by using the form "[Declaration substituting Degree Certificate](#)"), possible "*Classe di Laurea*", issuing University, award date and final grade or estimated award date, examinations taken with dates, credits obtained, grades and weighted average of the examinations (except from the thesis mark)<sup>8</sup>; graduates from the University of Trento may only declare the place and the date of award/foreseen date of award as the other information can be collected ex officio;

b. **foreign qualification<sup>9</sup>:**

• **already obtained:**

- a **certificate attesting to the possession of a second level university qualification** (see art. 2 paragraph 1 letter c), issued by the institution that awarded it. The certificate must indicate the type of diploma, the date it was awarded and the relative grade;
- a **list of examinations** taken to obtain the qualification to access a Doctoral Programme (*academic transcript of records of the Master's degree*) with related credits (if provided for in the university system of the country that awarded the qualification), marks, rating scale and weighted average of the examinations (except from the thesis mark)<sup>8</sup>.

If the university studies carried out abroad are divided into first and second level, the Bachelor's degree and the list of examinations taken to obtain that degree (*academic transcript of records of the Bachelor's degree*) should also be attached.

• **to be obtained:**

- a **certificate of enrolment in a course of study that allows admission to a Doctoral Programme** (see art. 2 paragraph 1 letter c), with a list of the examinations successfully passed, credits obtained in each examination (if provided for in the university system of the country that awarded the qualification), marks, rating scale (*academic transcript of records*), weighted average of the examinations (except from the thesis mark)<sup>8</sup> and the estimated award date.

If the university studies carried out abroad are divided into first and second level, the Bachelor's degree and the list of examinations taken to obtain that degree (*academic transcript of records of the Bachelor's degree*) should also be attached.

If the aforementioned **documents** are **not in English**, they must be accompanied by a **translation** in Italian or in English **made provisionally by the applicant** who takes responsibility for the accuracy of the translation and its compliance with the original text.

- C. **Curriculum vitae et studiorum** in Italian or English, preferably according to the [Europass model](#); all research experiences previous and planned for the future (academic degrees held and any university enrolments in progress must be specified

<sup>8</sup> Weighted average means the sum of the product between the grade for each exam and the credit associated with it, divided by the total credits.

<sup>9</sup> It is in the interest of the applicant to provide all information relevant for the assessment, especially if the country where the qualification was obtained has an education system not comparable to the Italian one



in detail; please specify also the High School diploma details), list of possible publications. Please do not send the entire publications, as the Selection Committee will evaluate only the list.

- D. Provisional or definitive **Title of the Master's degree thesis** and **name of the supervisor**;
- E. **Statement of purpose**: (In Italian or in English, max 2 pages): it is required to clearly specify: your scientific motivations avoiding generic statements, your personal motivations and your interest towards research in general, the reasons why you have chosen the Doctoral Programme in Physics at the University of Trento with reference to the research activities which are carried on there.

## 6. OPTIONAL ATTACHMENTS:

- A. **Summary of the Master's thesis** (in Italian or in English) explaining the reasons for the choice of the subject, the research methodology and the results obtained (max. 4 pages);
- B. Any other title, as for example international certifications also about your linguistic competence (e.g. the certification of GRE test - Graduate Record Examination, TOEFL, or similar);
- C. Any additional qualifications useful to demonstrate the attitude of the applicant in the research, such as degree thesis, scientific publications, awards, scholarships, post-graduate research activity, language skills certificates, certificate of scholarships;
- D. **Copy of the first-level academic degree** (Bachelor's degree) and **transcript**;
- E. **The name of one referee, expert in the research fields of the Doctoral Programme**, working at universities or national and international research institutions, with details of his/her e-mail addresses. The reference letter must not be sent by applicants. Once the Referee section has been completed and saved by the applicant, the system automatically sends, within 24 hours, a notification e-mail to the referee containing the instructions and modalities of transmission. Letter has to be issued on the base of a model sent directly to referee, and have to be uploaded on the website by him/her.  
It is strongly recommended that applicants verify that the referee has uploaded the Reference Letter no later than **May 19<sup>th</sup>, 2024**.
- F. **Applicants with a foreign qualification may attach**:
- **academic diploma of the Master's degree** (Master of Science/Arts or equivalent), in its original language and
  - **Diploma Supplement** (DS)<sup>10</sup> drafted according to the form developed by the European Commission, the Council of Europe and UNESCO / CEPES;

alternatively

- **Declaration of value**<sup>11</sup> which certifies that the educational qualification is valid in the country of issuance for admission to a Doctoral programme (third level of higher education according to the Bologna Process - European Higher Education Area; EQF level 8);

alternatively

- **Statement of comparability** of foreign university qualification<sup>12</sup> issued by the ENIC-NARIC Center in Italy (CIMEA) that contains all the information necessary for the assessment of the qualification.

If the foreign academic qualification has already been recognized as equivalent<sup>13</sup> to a second cycle Italian qualification **by the competent academic bodies of Italian universities**, the equivalence provision (Rectoral Decree) must be attached.

7. The University will accept additional documents to be included in the application submitted if sent by e-mail to [ateneo@unitn.it](mailto:ateneo@unitn.it) (**Subject**: "Application ID number- applicant's Surname and Name – Doctoral Programme in Physics – 40th cycle - Supplement to application") **by May 15<sup>th</sup>, 2024 at 4:00 p.m. Italian time**. Additional documents submitted by other means will be disregarded.
8. Only documents (originals or copies) in English and Italian will be considered for the selection by the Selection Committee; for all other languages it is compulsory to attach a translation into English or Italian signed by the applicant.
9. All applicants are admitted to the selection procedure **conditionally upon ascertainment that they fulfill the admission requirements (art. 2)**. The University of Trento has the right to verify the documents delivered pursuant to articles 71 et seq. of

<sup>10</sup> 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://www.cimea.it/en/servizi/il-sistema-italiano-di-istruzione-superiore/diploma-supplement.aspx> and [http://ec.europa.eu/education/resources/diploma-supplement\\_en](http://ec.europa.eu/education/resources/diploma-supplement_en)

<sup>11</sup> Further information about DoV and equivalence: <http://www.cimea.it/en/servizi/procedure-di-riconoscimento-dei-titoli/glossario.aspx>

<sup>12</sup> The University of Trento signed an agreement with the CIMEA Association about evaluating and verifying foreign titles through the online platform Diplome. Further information at: <https://international.unitn.it/incoming/diploma-verification>

<sup>13</sup> Details at <https://www.cimea.it/EN/pagina-riconoscimento-accademico> - Point 3) "Nostrification procedure (equipollenza)"



the Presidential Decree no. 445 of 28.12.2000. **The University can at any time, even after enrolment and upon justified reasons, decide the exclusion of applicants lacking the requirements specified in the present call.**

10. According to Italian Law no. 104/92, Art. 20 and to Italian Law no. 68/99, Art. 16 par. 1, applicants with special needs or with learning disabilities may explicitly request in their application for special assistance or extra time during the examinations, in accordance with their disability. In this case personal data will be processed in compliance with the current law as indicated in the GDPR Privacy notice.

#### Art. 4 – EVALUATION OF APPLICATIONS

1. The evaluation is made by a Selection Committee appointed by the Rector upon advice from the Doctoral Committee, in accordance with the University Regulations for Doctoral Programmes. The Selection Committee sets the evaluation criteria during a preliminary meeting.
2. The selection procedure is designed to rank, comparatively, the knowledge and aptitude of the applicants to carry out research in areas related to the Doctoral Programme.  
The selection is made on the basis of the assessment of:
  - All the mandatory applicant's qualifications listed in previous art. 3
  - An interview in English which is designed to assess the applicant's background about the Doctorate scientific areas, to discuss past research – included Master's thesis - and professional experience, and qualifications submitted.
3. The Selection Committee will evaluate the eligibility of the applicants for the position they shown their preference, on the basis of the documents (statement of purpose) they uploaded in the online application, or they sent lately as an integration. **Important notice:** the applicant's choice to compete also for the reserved scholarships implies a preference on his/her part for the awarding of that specific scholarship over the others.
4. The Admissions Committee may assign each applicant **100 points** as follows:  
0-30 points: assessment of qualifications, optional attachments and reference letters included;  
0-70 points: interview.

Applicants obtaining a minimum score of **15/30** for the assessment of qualifications will be admitted to the interview. The interview is successfully passed with a minimum score of **30/70**. Applicants obtaining an overall score of **60/100** will be short-listed.

The selection will take place at the University of Trento – Physics Department – via Sommarive, 14 – 38122 Povo (Trento/Italy); the **interviews** will start from **June 3<sup>rd</sup>, 2024**.

All selection results (interim and final) will be published only on the selection webpage.

5. The applicants can choose<sup>14</sup> to hold the interview as follows:
  - a) in person at the University of Trento;
  - b) online interview: using audio-video connection tools, that allow the correct identification of the participants (through a webcam), and the conduction of the oral test in a public form.

The Selection Committee will decide the schedule of the interviews (Italian time, GMT +2). Date, time and place of the interview and possible changes will be posted on the call for selection webpage.

The University is not responsible for any technical problems that could affect the correct ongoing of the interview.

Any changes about the examination date will be posted solely on the selection webpage.

To simplify the identification procedures, the identification document shall be the one attached when filling in the online application. The applicant's not showing up or connecting for the interview whatever the reason, or not being reachable on the day and at the time set for the examination, or not providing a valid identification document constitute grounds for exclusion.

#### Art. 5 – RANKINGS

1. At the end of the selection procedure, the Selection Committee draws up one general ranking list.
2. The available positions are assigned to short-listed applicants according to:
  - a) the position in the ranking list;
  - b) for reserved scholarships: the applicant's eligibility for that specific scholarship;
  - c) in case of equal score see following art. 6.
3. Non-allocated scholarships on reserved topics will result in the reduction of the number of positions available.

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<sup>14</sup> The choice has to be made in the relevant section while applying online





## Art. 6 – ADMISSION TO THE DOCTORAL PROGRAMME AND ACCEPTANCE OF THE POSITION

1. Short-listed applicants are admitted to the Doctoral Programme based on the final ranking until all available positions have been filled. All applicants compete for the award of the scholarships funded by the University of Trento; however, applicants who have been awarded a scholarship on a specific reserved topic must accept it. Renunciation of the reserved scholarship implies the applicant's exclusion from the right to enroll in the Doctoral Programme.
2. Should two applicants obtain the same score, regarding the award of the scholarship, the applicants' economic situations shall be the deciding factor, in accordance with the criteria established by the Italian Prime Minister's Decree of April 9<sup>th</sup>, 2001 and subsequent amendments and integrations. As for positions without scholarship, the younger of the two applicants will be selected.
3. Admitted applicants must send the acceptance of position following the instructions at [Enrolment 1, 2, 3 year](#):
  - **within 8 days** starting from the day following the publication of the final ranking lists on the selection website for **positions covered with scholarships or other form of financial support**;
  - **within 14 days** starting from the day following publication of the final ranking lists on the selection website for **positions without scholarships or other form of financial support**.

**N.B.!** Admitted applicants with a qualification that has not been awarded in Italy must deliver (if they had not already done so during the application phase – "Application procedure") the Doctorate Office S&T (sending them in advance by e-mail: [phd.office-st@unitn.it](mailto:phd.office-st@unitn.it)) **by November 8<sup>th</sup>, 2024**:

- *Academic diploma of the Master's degree* (Master of Science/Arts or equivalent) in the original or certified copy, together with the *academic transcript of records*, possible official translations<sup>15</sup>, legalized or with an apostille affixed<sup>16</sup> (please carefully verify the fulfillment of the requirements set by the issuing country of the title).
- *Diploma Supplement* (if provided for by the university where the title was issued, it is commonly used within the member countries of the European Higher Education Area (EHEA))

Alternatively

- *Declaration of Value*<sup>17</sup> issued by the Italian diplomatic or consular representations country of origin of the institution that awarded the title

alternatively

- *Statement of comparability* of foreign university qualifications<sup>18</sup> issued by the ENIC-NARIC Center in Italy (CIMEA) that contains all the information necessary for the assessment of the qualification.

In case the Diploma Supplement, or the Declaration of Value, or the Statement of comparability are not available by the given deadline, admitted applicants must deliver a document showing that they asked the University or the Italian diplomatic or consular representations or the ENIC-NARIC center for the documents to be issued.

Admission to the Doctoral Programme for successful applicants who do not provide the required above-mentioned documents by **November 8<sup>th</sup>, 2024** will be "conditional" and the applicants will lose their right to continue the Doctoral Programme if:

- they do not deliver the documents within 6 months from the starting date of the Programme;
- upon verification, their title is not in compliance with the requirements of this call for selection. In the case of loss of student status, the applicant must return the scholarship instalments eventually received.

4. Please note that the acceptance of a position must include the payment of stamp duty and the payment of the "provincial tax for the right to higher education" - TDS<sup>19</sup> (except for exemption cases). At present, no fees are charged to doctoral students to access courses and attend them, with the exception of the aforementioned annual provincial tax for the right to study (TDS).
5. Admitted applicants who do not accept the position by the above-mentioned deadlines will lose their right to registration, and their places will be offered to the next applicants on the ranking.
6. If a successful applicant **withdraws before the beginning of the Doctoral Programme** (November 1, 2024), the next applicant on the ranking will be offered the position, if entitled to it based on the eligibility assessment for reserved scholarships. The latter must submit his/her acceptance of the position **within 4 days** starting from the day after the communication from the Doctorate Office Science and Technology is sent.

<sup>15</sup> See: <https://www.esteri.it/en/servizi-consolari-e-visti/italiani-all-estero/traduzione-e-legalizzazione-documenti/>

<sup>16</sup> See: <https://www.studiare-in-italia.it/studying/info-13.html>

<sup>17</sup> Should the Declaration of Value not be available by the given deadline, the applicant has to produce evidence of the request to the Diplomatic mission. The applicant has to provide the original copy of the Declaration of Value as soon as it is available.

<sup>18</sup> The University of Trento signed an agreement with the CIMEA Association about evaluating and verifying foreign titles through the online platform Diplome. Further information at: <https://international.unitn.it/incoming/diploma-verification>

<sup>19</sup> Note that the total amount of the TDS + stamp duty must be paid only by credit card following the instructions. Page <https://www.unitn.it/en/ateneo/1931/education-tax-tds-and-stamp-duty> provides information on exemption from the TDS.



7. If a successful applicant **withdraws or is excluded** after the beginning of the Doctoral Programme and **during the first three months of the first year**, the Doctoral Committee may decide to fill the vacancy with the next applicant on the ranking, considering the acquired eligibility for reserved scholarships.
8. At the end of the enrolment period, doctoral students must communicate via e-mail (phd.physics@unitn.it) to the Doctoral Programme Secretariat the exact date of their arrival in Trento. Doctoral students who cannot be, for justified reasons, in Trento at the beginning of the academic year, must submit adequate motivations and justifications by **no later than November 6<sup>th</sup>, 2024**. In the case of a lack of communication and failure to arrive in Trento by the abovementioned deadline Doctoral students will be considered excluded from the Doctoral Programme.

#### Art. 7 – ENROLMENT ON THE DOCTORAL PROGRAMME

1. Enrolment on the Doctoral Programme, only for admitted applicants who have accepted the position as mentioned above, will be automatically formalized as soon as the accreditation for the academic year 2024/2025 has been confirmed by the Ministry of University and Research. If accreditation is not confirmed, applicants who have accepted a position will receive timely notification via e-mail, and the fee for the Right to Education (TDS) will be refunded.
2. In order to complete the enrolment process, those applicants who have obtained their academic qualifications abroad must, upon their arrival in Italy, show the official documents (the original ones or certified copies of them) relative to their academic record that have already been submitted in scanned form during admission to the selection phase or upon acceptance of the position, thereby enabling the appropriate checks of the validity of the qualifications to be conducted, also through the national information centres on the recognition of foreign qualifications belonging to the ENIC-NARIC network. Until that time, applicants are provisionally admitted to the course and may be excluded if they do not fulfil the requirements.

#### Art. 8 – SUPERNUMERARY POSITIONS

1. According to art. 18, par. 3 of the University Regulations for Doctoral Programmes, and up to the number of positions indicated in art. 1 (no more than no. 2), supernumerary applicants may be admitted without a scholarship paid by the University, after passing the selection procedure, if they fall within one of the following categories:
  - a) shortlisted foreign applicants who are granted scholarships by other entities;
  - b) shortlisted applicants from countries with which a specific inter-governmental agreement has been signed, and with which an ad-hoc agreement with the University is then made, without the University of Trento being required to assume any financial obligations;
  - c) research fellows (*Assegnisti di ricerca*) whose contract lasts for a minimum of 24 months as from the starting date of the Programme and researching a subject relevant to the Doctoral Programme; such relevance has to be determined by the Doctoral Programme Committee;
  - d) Italian civil servants or under Italian public law regime. Admission is subject to placement on leave under Art. 2 of the Law of 13.08.1984 no. 476 and subsequent amendments.
2. Short-listed applicants who wish to assert their requirements for supernumerary positions shall request for such admission by submitting appropriate documentation proving their status via e-mail to phd.office-st@unitn.it, **within 8 days** from the next day of the publication of ranking lists. Supernumerary admission is determined by the number of supernumerary positions listed in art. 1 following the order in the ranking.
3. After verification of the documents referred to in paragraph 2 of this article, applicants admitted to supernumerary positions will receive an e-mail notification from the Doctorate Office S&T and must deliver their acceptance within the deadline specified in the e-mail text itself.
4. Any applicant selected by special committees for admission related to specific international mobility programmes in which the University of Trento participates, may also be admitted to positions additional with respect to the quota specified at point 1 of this article.

#### Art. 9 – INTELLECTUAL PROPERTY RIGHTS ON RESEARCH RESULTS AND PUBLICATIONS

1. Without prejudice to the Italian law on copyright (legislative decree 633/1941 and subsequent amendments), intellectual and industrial property rights on the results eventually achieved by the PhD student, including (but not limited to) softwares, industrial inventions patentable or not, know-how, models, data and data collection, are regulated in accordance with applicable laws and University regulations and, if necessary, according to the provisions in the individual agreements with universities, companies or entities involved involved<sup>20</sup>.

<sup>20</sup> See: <https://www.unitn.it/en/ricerca/1767/protection-and-valorization-of-intellectual-property>



2. Before the start of the research activity, the PhD student is required to sign a specific declaration of commitment to confidentiality in relation to the information, data and documents of a confidential nature that he / she may become aware of in carrying out his / her activity at and / or on behalf of the University. At the same time, each PhD student is required to sign a specific declaration of transfer of intellectual property rights to the University, so that they are aware of the application of the relevant legislation and the University Regulations on intellectual property and possibly a confidentiality agreement with the funding body, if required, if the position is funded by an entity external to the University.

#### **Art. 10 - PROCESSING OF PERSONAL DATA**

1. Pursuant to art. 13 of Regulation (EU) 2016/679 (General Data Protection Regulation), applicants, acting as data subjects, are advised that the University of Trento and the National Institute for Nuclear Physics (INFN) will process their personal data in the public interest only for purposes related to the present Doctoral selection procedure and to comply with law obligations.  
The data Controllers are:
  - the University of Trento, via Calepina 14, 38122 Trento (Italy), e-mail: [ateneo@pec.unitn.it](mailto:ateneo@pec.unitn.it); [ateneo@unitn.it](mailto:ateneo@unitn.it).
  - the National Institute for Nuclear Physics, via Enrico Fermi 54, 00044 Frascati, Roma (Italy) e-mail: [amm.ne.centrale@pec.infn.it](mailto:amm.ne.centrale@pec.infn.it).The data Controllers agreed upon an arrangement between them, as provided for in art. 26 of the GDPR.
2. Contact details of the Data Protection Officers: To have information about processing of their personal data or to exercise their rights subjects may contact the following offices:
  - for the University of Trento: [rpd@unitn.it](mailto:rpd@unitn.it)
  - for the National Institute for Nuclear Physics (INFN): [dpo@infn.it](mailto:dpo@infn.it).
3. Purpose of the processing and legal basis: The data controllers processes personal data for reasons of substantial public interest (according to art. 6, comma 1, letter e) and c); art. 9, paragraph 2, letter g) of the GDPR).
4. Nature of the provision of data: The provision of personal data is mandatory to participate in the selection procedures and failure to provide them results in the impossibility to take part in the call. The provision of particular data concerning disabilities is optional, but failure to provide such data will determine the impossibility of using the necessary support instruments.
5. Data processing methods: The processing of personal data shall be carried out manually, by automated means and/or by telematic means by authorised staff according to their tasks and in compliance with the principles of lawfulness, correctness, transparency, adequacy, relevance, accuracy, integrity and confidentiality, in a manner that is adequate, relevant and limited to what is necessary in relation to the purposes for which they are processed (GDPR, art. 5, par.1). No automated decision-making processes, including profiling, are carried out.
6. Categories of recipients: In addition to all the personnel of the data Controllers acting for the above-mentioned purposes, personal data may be disclosed to third parties (public and private entities) in order to fulfil the abovementioned purposes, specifically to external bodies financing the scholarships.  
Personal data may also be disclosed to third parties in compliance with a legal obligations and/or provisions of the Public Security/Judicial Authorities.
7. Transfer to non-EU countries: In case personal data are transferred outside the EEA, it will happen in compliance with limitations and provisions specified in Article 44 and following of GDPR;
8. Data retention period: Personal data will be stored as long as necessary to fulfil the purposes for which they are collected, and anyway, as long as it is necessary by law. In any case data will be stored for the time indicated by the current law and/or by the regulations of the data Controllers on managing and storage of documents issued by the data Controllers within their institutional activities.
9. Rights of the Data subjects: Data subjects may exercise the rights referred to in Articles 15 et seq. of the GDPR at any time.  
In particular, data subjects have the right to access to personal data, rectification of personal data and/or their integration, erasure of personal data except in cases where the data Controller is required to keep them according to art. 17, 3 par. of the GDPR, limitation of the data processing operation and opposition to the data processing operation.  
In case there is an infringement of the GDPR on the processing of personal data, data subjects have the right to lodge a complaint with the Italian Data Protection Authority by virtue of article 77 of the GDPR or to engage in legal proceedings.

#### **Art. 11 - REFERRAL RULES**

1. For matters not explicitly mentioned in the present call, refer to Law no. 398 of 30.11.1989, art. 4 of Law no. 210 of 3.07.1998 as amended by art.19, par. 1, of the Law no. 240 of 30.12.2010, to Ministerial Decree no. 226 of 14.12.2021 and to the University Regulations for Doctoral Programmes issued by Rector's Decree no. 250 of 11.03.2022, to the Code of Ethics of the University of Trento, to the Students' Honour Code, to the [Internal Regulations in force of the Doctoral Programmes](#), and to the other relevant provisions contained in the current legislation.
2. This call for applications, together with an English version, will be published on the University of Trento's website, the Euraxess website and the Italian Ministry of Education, University and Research's website.
3. The person responsible for the administrative procedure is the Head of the Education and Student Services Management of the University of Trento. The reference office is the PhD Office Science and Technology Area, email: [phd.office-st@unitn.it](mailto:phd.office-st@unitn.it). The



Selection Committee is responsible for the applications selection procedure, from the evaluation of the qualifications to the interview, from the drafting of the minutes to the formulation of the merit rankings.

4. Any changes or additions to the call will be published on the selection webpage.