

**CALL FOR ADMISSION TO THE PHD COURSE
IN FUSION SCIENCE AND ENGINEERING
in agreement with the
GHENT UNIVERSITY**

FOR THE XXXIII CYCLE

The deadline for this call is 6 October 2017 at 13.00 CEST

Art. 1 – SUBJECT OF THE CALL

The selection process has been announced at the University of Padova for admission to the PhD Course in Fusion Science and Engineering for the 2017/2018 academic year - XXXIII cycle (hereinafter 'selection process').

The 'International Co-operation agreement for the joint doctorate programme in 'Fusion Science and Engineering' between the two Institutions shall regulate relations between the Parties involved, their respective contributions and commitments, the organisation of the Course, the specific management of the financial resources and the learning resources made available.

In particular the agreement specifies that all doctoral students enrolled must start the co-tutelage of doctoral thesis and as part of their individual study plan, doctoral students must spend a period of at least 6 months at the Host University (or alternate location approved by the supervisor of the Host University). Therefore the winners will have to enroll at both the University of Padova and Ghent University as specified at art. 7.

The number of places available with a grant, for any subject, may be increased with funding from public and private entities.

Art. 2 – ADMISSION REQUIREMENTS

2.1 Anyone in possession of the following, regardless of nationality, may apply to take part in the selection process:

- diploma di laurea (pre-reform regime);
- laurea specialistica/magistrale (post-reform regime);
- Second-level academic qualifications awarded by AFAM (Higher Education in Art and Music) institutions.
- Equivalent foreign academic degree

2.2 Admission to the selection process for candidates who have not yet been awarded their academic qualification

Anyone yet to be awarded the required academic qualification, but who will have received it by and no later than 31 October 2017, may also apply to take part in the entry examinations. Otherwise, admission to the course will be denied. Admission will be conditionally granted to these candidates, who will have to provide self-certification regarding the qualification awarded (or the certificate itself if the qualification was awarded in a non-EU country), together with an identity document by 6 November 2017. Said certification must be sent via email to bando.dottorati@unipd.it or delivered in person to the 'Servizio Formazione alla Ricerca' (PhD Office) in via del Risorgimento 9, Padua. The self-certification (or the certificate itself if the qualification was awarded in a non-EU country), must indicate the name of the university that awarded the qualification, the date it was awarded, the type of degree (first-cycle Italian university degree, second-cycle Italian specialist/master degree) and the grade achieved, together with a copy of a valid identity document.

2.3 Admission to the selection process for candidates in possession of an academic qualification awarded abroad that is yet to be officially declared as equivalent to an Italian qualification

Admission to the selection process will be conditionally granted to those candidates in possession of an academic qualification awarded abroad that has not yet been officially recognised as equivalent to a second-cycle Italian qualification by the competent academic bodies of Italian universities. The academic qualification in the student's possession must refer to a course with a

duration of at least 4 years and must give access to the PhD course in the country in which it was awarded. Suitability of the qualification will be verified by the Course's Admission Committee and will only be granted for the sole purpose of admission to the chosen PhD course.

To this end, when completing the online application process, the candidate must request that their qualifications be verified and attach the following documents:

1. Certificate of the qualification awarded abroad with relative declaration of value, if available;
2. Certificate indicating the examinations taken and relative grades achieved;
3. Any other documentation considered useful to assess the suitability of the qualification held (Diploma Supplement, curriculum vitae in standard European format, etc.);
4. Translation of the attached documents in Italian or English, to be carried out under the candidate's own responsibility.

EU citizens may substitute the above-mentioned documentation with self-certification in cases where the qualification has been awarded in an EU country.

Art. 3 – APPLICATION FORM

The application form to participate in the selection process may only be submitted using the dedicated online procedure, available at:

<https://pica.cineca.it/unipd/dottorati33-fusion-science-and-engineering/>

. Application forms must be submitted no later than 13.00 (CEST) on the announcement deadline date (6 October 2017).

Candidates must indicate whether they are exclusively competing for unfunded places. This choice cannot be changed afterwards.

Candidates also wishing to compete for the place with priority research grant are obliged to indicate this in their application, selecting the relative subjects. This option will be a binding priority choice. The winner of such place will have Ghent as Home University.

Only candidates who have made a specific request to do so in their application may compete for the priority research grants. This choice is final.

All required documents to be submitted listed in the information sheet must be attached to the application form, together with a copy of an identity document. All documentation must be attached in pdf format.

For all legal purposes, the application is to be considered as a self-certification of the data included therein and of the attached documents, in accordance with articles 46 and 47 of Italian Presidential Decree no. 445/2000 and subsequent amendments.

Once the application form has been completed, it must be printed, signed manually and re-uploaded following the instructions described in the online procedure, and an identity document must be attached. A missing signature and/or missing identity document could lead to exclusion from the selection process.

The application is automatically sent to the University when the online procedure has finally been completed. Therefore, no paperwork needs to be delivered or sent to the University's offices.

Candidates are responsible for verifying that the procedure is completed correctly. No complaints will be accepted for any malfunctioning of the IT system due to overload experienced by candidates near the closing date.

Pursuant to Italian Law no. 104/92, as amended by Italian Law no. 17/99, disabled candidates may request an individual examination (with the use of aids, any additional time required, etc.) to complete the required entry examinations. In accordance with Italian Law no. 170/2010, candidates

with specific learning disabilities are allowed 30% more time to complete written exams, if required for the selection process for admission to the chosen PhD course, subject to a request for an individual examination. The request must be written in accordance with the instructions available as part of the online application procedure for the selection process.

Art. 4 – ADMISSION PROCEDURES AND ENTRY EXAMINATIONS

4.1 Information on selection procedures and the dates for examinations are provided in the information sheet of the Course.

For all intents and purposes, the examination dates indicated in the Course information sheet represent official notification. Candidates will therefore not receive any further call or notification regarding the entry examinations.

To take the examinations, candidates must arrive at the location on the day and at the time indicated in the aforementioned information sheet, providing a valid identity document (e.g. a national identity card, passport or driving licence).

4.2 The oral examination will be considered passed if the candidate obtains a mark equivalent to at least 7/10.

The Committee will carry out a pre-selection on the basis of the academic qualifications presented by the candidate. Candidates who pass the pre-selection phase, obtaining a minimum score of 7/10, will be admitted to the oral examination.

The entry examination will be taken in the language(s) indicated in the Language(s) section of the specific information sheet of the Course, under the item “Admission exam”.

4.3 Candidates may take the oral examination remotely, using videoconferencing equipment (e.g. Skype). In this case, interested candidates must make a specific request and provide their contact details on the selection process application form, guaranteeing that they will use a webcam in order for them to be correctly identified by the Selection Committee. The candidate must be reachable at the contact details given, on the day of the oral examination, according to the calendar published on the website indicated in the information sheet. It is at the discretion of the Committee to decide whether to agree with the candidate a precise time for the start of the oral exam.

For identification purposes, and under penalty of exclusion from the selection process, candidates are required to identify themselves showing the same identity document already sent as an attachment to the application before the start of their oral exam.

Failure to confirm contact details, failure to connect or be reachable on the day and at the time agreed, or failure to show a valid identity document pursuant to the previous paragraph, may result in exclusion from the selection process.

The University of Padova shall accept no responsibility for any technical issues that may prevent the oral examination from being correctly carried out.

4.4 Oral examinations, including those conducted remotely, are public.

4.5 For candidates who have also submitted an application for priority research grants, the Committee will also verify their suitability for the specific subject.

Art. 5 – SELECTION COMMITTEE

The Selection Committee is appointed by the Rector according to the proposal put forward by the PhD Board, in accordance with the University Regulations on PhD courses. It will be made up of three members chosen among Italian or foreign professors and university researchers according to what stated in the agreement..

Art. 6 – RANKINGS AND ADMISSION TO COURSES

6.1 Upon conclusion of entry examinations, the Committee compiles the general ranking for admission to the Course based on grades achieved in the examinations. Candidates will be granted admission to the course according to the course ranking.

6.2 The general ranking for admission to the Course will indicate the eligible candidate for the priority research grants. This candidate will have Ghent as Home University.

6.3 Grants will be awarded based on the merit ranking.

If the successful candidate is eligible for a priority research grant, this grant will be assigned as a priority, as specified in art 3.

If several successful candidates are eligible for the same priority research grant, the Committee will award the grant based on the merit ranking.

6.4 If, upon completion of enrolment, any places/grants become available, as a result of explicit or tacit renunciation or enrolment withdrawal, these shall become vacant for other candidates, according to ranking and level of eligibility.

6.5 The Rector approves the selection proceedings and declares the ranking official for the admission of candidates. The rankings will be made public from **20 October 2017** through:

- Publication on the University's official register;
- Publication on the University of Padova website: <http://www.unipd.it/ricerca/dottorati-di-ricerca/bandi-e-graduatorie>.

Winners will have to enrol by 27 October 2017.

Information on enrolment procedures will be published at the same time as the rankings.

Publication of enrolment deadlines are to be considered as official notification for all intents and purposes.

No information will be sent to the candidate's home. Candidates granted admission to the Courses are responsible for checking enrolment dates and procedures.

Art. 7 – ENROLMENT

Successful candidates, with or without a grant, will have to enrol at both the University of Padova and Ghent University and they will have to sign a cotutelle de thèse agreement. They will have to spend a period of at least 6 months at the Host University (or alternate location approved by the supervisor of the Host University).

At the University of Padova successful candidates, with or without a grant, must enrol by 27 October 2017, following the procedures published together with the rankings.

Failure to enrol by the deadlines will be considered as renunciation of the place (with or without a grant), which will subsequently be assigned to the next candidate according to the ranking.

The duly signed enrolment form must be submitted to the 'Servizio Formazione alla Ricerca' (PhD Office), along with the following documentation on plain paper:

- Enrolment form for the first year of the PhD course, with indication of the assigned place;
- Copy of a valid identity document;
- Copy of confirmation of fee payment;
- A passport-size photograph.

When completing the enrolment form, the successful candidate declares, inter alia, that:

- They are not enrolled, nor shall they enrol for the duration of the PhD, in another university Course unless authorised by the present announcement or by current legislation;
- If enrolled in a first- or second-cycle degree course (with exclusion of the academic qualification required to access the PhD, in accordance with art. 2), they will have been awarded all credits, except for those relating to the final examination, by 31 October 2017;
- If enrolled in a university master course, they will cease attendance of all educational activities by 31 October 2017;

- The final examination of the course first enrolled in (excluding the PhD), will have been passed no later than ninety days after the start of the PhD;
 - They are not enrolled, and nor shall they enrol, with a Specialisation School. If enrolled, they declare that they will suspend attendance before beginning the PhD course, where this is possible; if enrolled in the final year, they declare that they will complete their specialist training before the start date of the PhD Course;
 - They shall undertake to ask the competent body of the Course for authorisation to carry out work outside of the course;
- and, if a grant holder:
- They have not already benefited from another PhD Course grant in the past;
 - They will not accumulate the grant with another grant, awarded for whatever reason, except for those assigned by national or international institutions for the purposes of integrating the research activities of the PhD student with time spent abroad;
 - They are aware that the grant is only awarded to those who have a yearly income that is below the equivalent of a year's grant amount for the tax years when the grant will mainly be used, and shall provide prompt notification should their income exceed this limit;
 - They shall undertake to pay back the monthly grant instalments received in the year in which their income exceeded the limit;
- and, if a priority research grant holder:
- They are aware that the priority research grant is awarded subject to the candidate carrying out the research indicated in the relative agreement and respecting the agreement's contents.

Candidates who graduated abroad must also attach to their application:

1. A copy, in Italian or English, of the academic qualification awarded abroad, complete with the declaration of value (only for academic qualifications awarded in non-EU countries), and a copy of the certificate indicating the examinations taken and the relative grades, translated and legalised by Italian diplomatic or consular authorities.
2. A valid residence permit if already issued, or a copy of the request made to the competent authorities within 8 days of arriving in Italy (only for non-EU citizens).

Should there be any doubts regarding the nature or validity of academic qualifications awarded in EU countries, the University reserves the right to request the certificate or a Declaration of Value. For further information on the Declaration of Value, visit the web page <http://www.studiare-in-italia.it/studying/info-07.html>.

Candidates in possession of a foreign academic qualification who have not provided the required documentation requested at the time of enrolment will be enrolled conditionally and will be excluded from the PhD course, with the obligation of refunding grant instalments unduly received, if:

- They do not submit such documentation within 12 months of the start of the course;
- Following verification, the academic qualification does not meet the requirements of the present competition notice and does not permit enrolment on the PhD course.

At Ghent University successful winners will have to follow the procedures specified at:

<http://www.ugent.be/en/education/degree/practical/studentadmin/enrolment/doctorate/enrolment-doctorate.htm>

Art. 8 – VACANT PLACES

When the ranking is published, the University will also publish the dates of when a list of vacant places will be made available. This list will include the application deadlines and enrolment Procedures for any of the aforesaid places.

No correspondence will be sent to a candidate's home or domicile address.

Art. 9 - GRANTS

Fellowships will be granted on the basis of the ranking list prepared by the Selection Committee.

Fellowships will be paid by the Home University according to its amounts and rules.

At the University of Padova grants are only awarded to those who have a yearly income that is below the equivalent of a year's grant amount for the tax years when the grant will mainly be used. Should the grant holder's income exceed this limit, they will lose their right to the grant for the year in which the limit was exceeded. In this case, the PhD student concerned will be obliged to pay back any monthly grant instalments already received.

Should applications have equal merit, the assessment of the applicant's economic situation is the deciding factor in awarding a grant. This is calculated pursuant to ISEE or ISEEU (Equivalent Economic Situation Indicator) values. Unfunded places will be awarded to the younger applicants.

In accordance with Italian Ministerial Decree dated 18 June 2008, the annual amount of the grant is 13,638.47 euros, gross, less national insurance and pension contributions payable by the recipient to INPS (Italian National Institute for Social Security), pursuant to art. 2, paragraph 26 et. seq. of (Italian) Law no. 335 dated 8 August 1995, and subsequent amendments and integrations.

PhD grants cannot be used together with other grants, awarded for whatever reason, except for those assigned by national or international institutions for the purpose of integrating the research activities of the PhD student with time spent abroad.

The amount of the grant is increased by 50% for any time spent abroad.

The grant takes effect when the holder effectively begins to attend the course.

The grant is paid in deferred monthly instalments.

Anyone who has already benefited from a PhD grant, cannot do so for a second time.

Art. 10 – ENROLMENT AND TUITION FEES

All students must pay the enrolment fees due in the Home University.

Art. 11 – COURSE START DATES AND OBLIGATIONS OF PHD STUDENTS

Courses will begin on 1 November 2017.

Admission to a PhD course is a full time, exclusive commitment.

PhD students are obliged to carry out the activities relating to their approved research plan and to present a report on the activities and research carried out to the competent body of the Course at the end of each year, as well as the PhD thesis, complete with original contributions, at the end of the course. Theses must be submitted in accordance with the procedures established in the University Regulations for PhD studies.

After evaluating the activities carried out by the PhD student, the competent body of the Course will deliberate whether to admit the PhD student to the next year of the course. With a substantiated decision, the Doctoral Board may also propose to the Rector that the student be excluded from continuing the Course.

Art. 12 – PhD DEGREE

The PhD is awarded upon successfully passing the final examination at the Home University. This examination consists of an oral discussion with the candidate on their thesis. In order to be admitted to the public defence, an internal, first defense will be organized in advance at Ghent University.

The supervisory committees for the final examination will be formed and appointed in compliance with the 'International Co-operation agreement for the joint doctorate programme in 'Fusion Science and Engineering'.

Art. 13. – SPECIAL CASES

Recipients of funding to support research, selected in the context of international projects (Marie Skłodowska Curie, Erasmus Mundus), may be admitted to the courses, subject to the approval of the Doctoral Board, which will verify the suitability of the research subject compared with the

scientific-disciplinary subject matters covered by the course and will also assess the eligibility of the grant holder for admission purposes. Candidates benefiting from funding/grants awarded by countries with whom the University of Padova has stipulated specific agreements may also be admitted to reserved places. For information on how to participate in the selection process, candidates belonging to these categories must contact the 'Servizio Formazione alla Ricerca' (PhD office) via email, using the address bando.dottorati@unipd.it.

Art. 14 – PROCESSING OF PERSONAL DATA

The processing of personal data as required by article 4 of the present announcement is exclusively for activities connected with the selection process for admission to the PhD Courses.

The processing of personal data on behalf of the University of Padova is carried out by CINECA Interuniversity Consortium, in the person of the Director and by the members of staff of the Consortium who have been appointed by the Director.

The provision and collection of data is compulsory for the selection process to be carried out and any sensitive data is handled in accordance with Italian Laws nos. 68/1999 and 104/1992. It is compulsory and necessary to provide the data indicated in the announcement for admission requirements to be correctly assessed and rankings to be compiled, under penalty of exclusion from the selection process.

With regard to specific consent for the potential Higher-level Education and Research Apprenticeship contracts, refer to article 4 of the present announcement.

The data controller is the University of Padova, whom any candidate may contact in order to exercise their rights pursuant to article 7 of Italian Legislative Decree no. 196/2003.

CINECA is the data processor, appointed by the data controller. The persons in charge of processing are the members of staff of CINECA, who have been appointed by the Director of said Consortium.

Art. 15 – INDIVIDUAL RESPONSIBLE FOR PROCEEDINGS

Pursuant to art. 5 of Italian Law no. 241 dated 7 August 1990 (New rules regarding administrative procedures and the right of access to administrative documents) and subsequent amendments, the individual responsible for proceedings is Dott.ssa Maria Zanato – Head of the 'Servizio Formazione alla Ricerca' (PhD Office).

Art. 16 – NOTES AND INSTRUCTIONS

16.1 The present announcement is to be considered as official notification for all intents and purposes. No notifications will be sent to the candidate's home.

Any amendments or integrations to the present announcement shall be notified through:

- a) Publication on the University's official register;
- b) Publication on the University of Padova website: <http://www.unipd.it/ricerca/dottorati-di-ricerca/bandi-e-graduatorie>

16.2 Candidates can take part in the selection process, subject to verification that they meet the requirements stated in the announcement. Verification will be carried out in accordance with art. 43 of Italian Presidential Decree no. 445 dated 28 December 2000.

The University will check the truthfulness of the declarations which candidates have provided to substitute certificates and, therefore, may exclude candidates from the selection process at any given moment. Anyone making false declarations will be punished in accordance with the penal code and special applicable laws.

The candidate in question will be informed of their exclusion via written notification sent to the home address indicated on their application form.

At any given moment, even after Courses have begun, the University may carry out checks into the truthfulness of the declarations provided and may, by a substantiated decision, exclude candidates for failing to meet the requirements set out in the announcement.

16.3 The University shall assume no responsibility for the loss of any notifications resulting from the candidate providing inaccurate indication of their residence and contact details, or caused by failure or delay to communicate any variations of these details. The University shall not be held responsible for any postal or telecommunications errors which are not the fault of the University itself.

16.4 Any matters not covered by the present announcement shall be governed by current applicable rules and legislation and, specifically: Italian Ministerial Decree no. 45 dated 8 February 2013; University Regulations on PhD studies issued with Italian Regional Decree no. 2547 dated 3 October 2013 and subsequent amendments; Agreements with other institutions for the creation of PhD courses and agreements for PhD funding, agreements for the initiation and funding of industrial PhD places and agreements to initiate higher-level education and training apprenticeship courses for the purposes of obtaining the PhD qualification.

FOR FURTHER INFORMATION:

For assistance with completion of the online application:

- Write to bando.dottorati@unipd.it; we cannot guarantee that emails sent to other addresses will be read;
- Telephone Help Desk service on (+39) 049 8271929 available Monday to Friday from 10.00 to 12.30 CEST.

For course information:

Contact the telephone numbers indicated in the information sheet for the PhD course you are interested in, under the section “For further information”.

The present selection announcement is available on the website at <http://www.unipd.it/ricerca/dottorati-di-ricerca/bandi-e-graduatorie> and a copy is available at the ‘Servizio Formazione alla Ricerca’ (PhD Office), in Via del Risorgimento 9, Padua.

To find out the days when the ‘Servizio Formazione alla Ricerca’ (PhD Office) may be closed, please check the University website.

Padua, 07/09/2017

THE RECTOR
Prof. Rosario Rizzuto

Annex 1

PhD Course: FUSION SCIENCE AND ENGINEERING in agreement with Ghent University

Department	CENTRO DI ATENEO "CENTRO RICERCHE FUSIONE"		
Duration	3 years		
Number of positions	Scholarships funded by the University	n. 2	
	Scholarships funded by institution arrangement	n. 1	1 scholarship with mandatory thesis topic funded by Gent University Topic: Advancement of critical aspects of the ICRF system of ITER Home University: Ghent University
	Scholarships funded by external public or private bodies	n. 1	1 scholarship funded by Fondazione Cassa di Risparmio di Padova e Rovigo;
	Positions without scholarship	n. 1	
	Total number of positions	n. 5	
Selection criteria	PRESELECTION ON THE BASIS OF EVALUATION OF QUALIFICATIONS AND ORAL EXAMINATIONS		
Oral examination via remote interview:	Applicants who want to take the oral examination via remote interview (SKYPE) will have to specify it in the application form and add their Skype ID		
Evaluation criteria	Qualifications: points max 70 Oral examination: points max 30		
Documents to be submitted	Curriculum	Points: max 40	The CV must include the following information: <ul style="list-style-type: none"> - The final evaluation for every degree obtained: Bachelor, Master, etc - All marks of the exams for every degree: Bachelor, Master, etc - Time spent abroad during the studies (e.g. Erasmus grants, Erasmus Placement, Time, thesis abroad, etc.) - Relevant work experience (research grants, scholarships, internship periods, period of employment); - Awards/Prizes - Knowledge of languages.
	Scientific publications	Points: max 10	Publications in journals/conferences proceedings/books. Contributions presented at conferences and manuscripts accepted for publication might be considered only if an adequate documentation (conference programme, acceptance letter, DOI, etc.) is provided
	Research Project	Points: max 20	Submission of a research project. If you are applying for the scholarship with mandatory thesis topic, the proposed project must be related to that specific research topic. The research project must be submitted according to the

		<p>following guidelines:</p> <ol style="list-style-type: none"> 1. The project must be written in English. 2. Use A4 page, preferably with 2.5 cm edges, single line, Times Roman 12 pt. 3. Project title and abstract (max 500 words). 4. State of the art related to the project (max 1 A4 page). 5. Project objectives and scientific and personal reasons for undertaking the specific research proposed and for choosing the PhD Course in "Fusion Science and Engineering" (max 1 A4 page). 6. Methods proposed to achieve the project objectives, and sequence of activities (max 1 A4 pages) 7. References (max 10 references).
Preselection: First meeting of the Evaluating Commission	10 October 2017 at 9.00	
Publication of the results of the evaluation of the preselection	<p>Within 10 October 2017 the evaluating Commission will publish the results of the evaluation of the qualifications in the following website: https://www.igi.cnr.it/education/ In order to be admitted to the examination, the candidate must get a score of at least 7/10 in the preselection.</p>	
Publication of the timetable of remote interviews	<p>Within 10 October 2017 the commission will publish on the course website : https://www.igi.cnr.it/education/ the timetable of the remote interviews SKYPE (with the place, date and hour) for those applicants who have chosen in the application form to take the oral examination via remote interview and who have passed the preselection on the basis of the qualifications with a pass-mark of at least 7/10.</p>	
Oral examination	11 October 2017 at 8.00 a.m. – Consorzio RFX – Corso Stati Uniti, 4, Padova	
Language/s	<p>Foreign language/s assessment at the oral examination: At the oral examination the commission will assess the knowledge of the following language/s: English Admission exam: The admission exam will be in: English or Italian</p>	
Examination topics	Magnetic confinement fusion: science and technology	
Didactic program	<p>Mandatory courses , including at least 2 among the following courses:</p> <ul style="list-style-type: none"> - AC1 - Advanced course on Physics - AC2 - Advanced course on Plasma Diagnostics and Control - AC3 - Advanced course on Fusion Technology 	
PhD Course Website:	http://www.unipd.it/en/fusion-science-and-engineering	
Further information	<p>Department: Centro di Ateneo "Centro Ricerche Fusione" Address: Corso Stati Uniti - n. 4, 35127 Padova (PD) Contact person: Colautti Fiorella telephone: +39 049 8295891 e-mail: fiorella.colautti@igi.cnr.it</p>	
How to apply	<p>The application must be submitted only via the online procedure available at: https://pica.cineca.it/unipd/dottorati33-fusion-science-and-engineering/ The documents must be attached in pdf format. The application and the attached documents are submitted automatically by closing the online procedure. So no hard copy of the application and of the documents must be sent to the office.</p>	
Deadlines	<p>Publication of the ranking lists and enrollment from 20 October 2017 Beginning of PhD courses 1 November 2017</p>	