



Call for Doctoral positions in ELECTRONICS AREA ICT International Doctoral School – 23rd cycle

THE RECTOR

Given Law no. 210 of 3.07.1998, and in particular, art. 4, and in accordance with the general criteria stipulated by ministerial regulations, it is assigned to universities the organisation of Doctoral courses, its enrolment modalities and the conferral of the title;

Given the Ministerial Decree no. 224 of 30th of April 1999, regarding the general criteria to be followed by individual universities regarding the organisation of Doctoral courses;

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

Given the Charter of the University of Trento and in particular, art. 8, paragraph 3;

Given the University Regulations for Doctoral Schools, issued with the Rector's Decree no. 997 of 16th of December 2003; and later modified to Rector's Decree n.359 on 19th April 2006;

Given the proposals made by the Department of Computer Science and Telecommunications;

Given the report of the internal Evaluation Committee of the 16th of January 2007 concerning the requisites of appropriateness proposed by the Doctoral Schools;

Given the decision by the Academic Senate and the Commission for Scientific Research, on the 6th of February 2007.

DECREES

Art. 1 – INSTITUTION

The University of Trento announces the institution of the 23rd cycle of the International Doctoral School in Information and Communication Technology, for the academic year 2007/2008

Duration: three years

Discipline:

- INF/01 Computer Science
- ING-INF/01 Electronics
- ING-INF/02 Electromagnetic Fields
- ING-INF/03 Telecommunication
- ING-INF/04 Automated Reasoning
- ING-INF/05 Information Processing and Computer Engineering
- ING-INF/06 Bioelectronics and Bioinformatics
- ING-INF/07 Electrical and Electronic Measurements

Head of the School: prof. Dario Petri – e-mail: infoICT@ict.unitn.it

Official Language: English

is announced the public selection for **7 places of which 5 are covered with a study grant.**

Grants are financed as following:

4 study grants Università degli Studi di Trento;
1 study grant ArsLogica, concerning the topic "Infrastructure for Embedded systems design".

The number of grant-assisted places may be increased by funds from universities, public research bodies or private organisations made available following publication of the present call and prior to selection. An eventual increase in the number of grants may determine an increase in the number of places of the call. Any increase in the total number of available places will be posted on the website: <http://portale.unitn.it/en/ec/phd/ict.htm>



Art. 2 – ADMISSION REQUIREMENTS

Applications for the admission to the Doctoral School are accepted from candidates, regardless of gender, age, religion or nationality, who have an Italian “laurea specialistica” (“magistrale”) according to Ministerial Decree no. 509 of 3.11.1999 and following amendments, a university degree of the previous regulations in force, or equivalent degree qualification obtained abroad.

Applicants who have a foreign qualification that has not been officially recognised as equivalent to an Italian degree must submit a request for equivalence in their application. In this case, it is necessary to attach the following documents:

- degree certificate (EU citizens might present a self-declaration of the possession of a degree, according to Presidential Decree no. 445 of 28.12.2000)
- translation into English of the degree certificate with exams and grades obtained and furthermore signed by the applicant to enable the Doctoral School Committee to declare its equivalence, for the sole purpose of being admitted to the selection of the present Call.

Applications are also accepted from students who expect to complete their degree **by the 31.10.2007**. They need to present, together with their application, a statement by their thesis supervisor declaring that the student will complete his/her degree by 31.10.2007. In such cases, admission will be "conditional" and applicants must be able to present the relevant degree certificate, or a declaration that the degree has been conferred (according to Presidential Decree no. 445 of 28.12.2000 applicable only to EU citizens) **by the 31.10.2007**.

After their admission to the School, successful non EU applicants who have a foreign qualification must present the degree certificate with exams and grades obtained, translated and certified by the Italian Embassy or Consulate in the country of the university that issued the degree, and the respective declaration of validity (“Dichiarazione di Valore”) **no later than the 31.10.2007**.

Art. 3 - DOCTORAL PROGRAMME

The Doctoral School relies on the multidisciplinary expertise of the teaching staff and the availability of a range of scientific laboratories at the University, in Research Institutes and in top level partner societies.

Thus the Doctoral School offers doctoral students the chance to acquire advanced skills in specific research fields, as listed in art. 1 and collateral sectors therefore favouring development in innovative fields which often require knowledge in different areas.

The programme includes the following research areas:

- Nano- and Micro- Systems
- Embedded Electronics and Computing Systems
- Remote Sensing and Systems for Environmental Monitoring
- Networking

Each doctoral student is assigned a professor to act as a tutor for the first term. The tutor must evaluate the doctorate’s ability to carry out research and also aid in the student’s proposals and individual study plan according to the methods outlined in the School’s Teaching Programme.

During the second term of the first year doctorates are monitored by an advisor who supervises their research and guarantees the quality of the work carried out. Furthermore, the advisor must make sure that doctorates adhere to the regulations in order to create a good working environment intended to further their scientific and professional growth within the School.

Admission to the second year is approved only if the Comprehensive Exam has been passed, courses have been regularly attended and the advisor gives positive feedback regarding the students’ research.

Admission to the third year is approved only if the Qualifying Exam has been passed. This particular exam involves the preparation of a thesis outlining the research which should be presented and evaluated by a Committee of experts of international recognition.

During the third year, students concentrate mainly on their theses. The theses should be presented in English and should contain original work which may be the result of scientific collaboration.

The conferral of the doctoral title depends on the positive assessment of a Commission composed by international experts on the doctoral student thesis and on its oral presentation.

Art. 4 – APPLICATION

The Application is composed of the following documents:

- **“Admission Call” form;**



- **Attachments.**

“Admission Call” form

The “**Admission Call**” form (see “**Form A – E**”) must be initially filled in **on-line** at the website <http://ict.unitn.it/~register/>, **printed, signed and delivered** to the University of Trento, **together with the Attachment 1, by the 16th of July 2007.**

The delivery of the hard copy of the “**Admission Call**” form and of the **Attachment 1** is compulsory and it can be made in one of the following ways:

- **by hand** to: University of Trento - Department of Information and Communication Technology, Via Sommarive, 14 – 38050 POVO (Trento) – ITALY, from Monday to Friday from 9.00 to 12.00;
- **by post** to the following address: To the Rector of the University of Trento - Department of Information and Communication Technology, Via Sommarive, 14 – 38050 POVO (Trento) (specifying Name and Surname, personal ID number given after the on-line registration “Call for Doctoral Position, ICT International Doctoral School” on the envelope);
- **by fax** to the number + 39 0461 883964 (specifying Name and Surname, personal ID number given after the on-line registration “Call for Doctoral Position, ICT International Doctoral School”).

Attachments

The attachments must be uploaded within the **16th of July 2007** on the page <http://ict.unitn.it/edu/ict/appform/login.xml> using your access credentials received after completing the on-line enrolment.

Attachment 1. Photocopy of the applicant’s identity card or passport.

Attachment 2. Degree certificate

- Degree certificate for the candidates who have obtained the Italian degree of “Laurea specialistica” (“magistrale”) or a university degree of the previous regulations in force.
- For the candidates who have a foreign qualification that has not been officially recognised as equivalent to an Italian degree: translation into English of the degree certificate with exams and grades obtained and furthermore signed by the applicant to enable the Doctoral School Committee to declare its equivalence, for the only purpose of being admitted to the present Call.

The EU citizens can present a Self-declaration, stating they have obtained the degree, according to Presidential Decree no. 445 of 28.12.2000.

Applications are also accepted from students, who expect to complete their degree by the 31.10.2007. These candidates, in order to be admitted to the Call, have to present:

- University enrolment certificate with exams and grades obtained.
- Official letter by their supervisor stating the date for the candidate’s thesis defence.

Attachment 3. Summary of the dissertation either in Italian or in English explaining the reasons for the choice of the subject, the research methodology and results obtained (minimum three and maximum six pages).

Attachment 4. Curriculum Vitae.

Attachment 5. Two letters of recommendation (applicants can use the attached “Form B”) from two experts on the doctorate’s research fields.

Attachment 6. Applicants have to declare how long and why they have known the referees who are writing the letter of recommendation and should also state their full address and e-mail.

Attachment 7. Short statement (maximum two pages) in English explaining the reasons for the applicant’s interest in attending the Doctoral School and outlining specific research interests (Statement of Research Interest).

Attachment 8. List of publications if any.

Attachment 9. Any certificates attesting to the knowledge of the English language (e.g. TOEFL, Proficiency Certificate or other).

Attachment 10. If the GRE test (Graduate Record Examination) has been sat then pass certification.

Attachment 11. Any other document or qualification demonstrating the applicant’s research skills.

The University of Trento has the right to verify the delivered documents following articles 71 and next of the Presidential Decree no. 445 of the 28.12.2000. The School has the right of excluding, for justified reasons, candidates who have presented counterfeit documents or made mendacious declarations.

The University of Trento does not accept responsibility for loss of applications through errors in the address as well as possible postal or telematic problems.



Applications will not be accepted in case of lack of the following documents by the 16th of July 2007: the filled in and signed “Admission Call” form (“Form A – E”) and the attachments from no. 1 to no. 7.

Art. 5 – SELECTION

Selection is necessary in order to assess the candidate’s knowledge and aptitude in research in the scientific areas referred to in art. 3.

The selection is made by the Admission Committee, based on evaluation of the applicant’s qualifications according to art. 4.

Applicants obtaining a minimum score of 60/100 will be short-listed.

Art. 6 – ADMISSION COMMITTEE

The Admission Committee is nominated by the Rector in consultation with the Doctoral School Committee. It consists of three members chosen among professors and researchers including foreign figures who are experts in the scientific areas of the Doctorate. The Committee may also include other two experts from national and international research institutes.

The Committee evaluates qualifications and assigns scores. On the basis of points given, the Committee compiles a list of applicants in order of merit. The short-list will be displayed on the website:

<http://portale.unitn.it/en/ec/phd/ict.htm>

Notification is considered as done through publication of the list.

The successful applicants will not receive personal communications of their results.

Art. 7 - ADMISSION TO THE DOCTORAL SCHOOL

The Doctoral School admission is based according to a short-list created by the Admission Committee to cover all places available published in this Call.

If a successful applicant withdraws before the beginning of the course (1st of November 2007), **the next applicant** on the short-list will be offered the place.

If a successful applicant withdraws or is excluded **after the beginning of the courses and during the first term** the Doctoral School Committee may decide to fill the vacancy with the next candidate on the list.

According to art. 18, paragraph 3 of the University Regulations for Doctoral Schools and to what has previously been deliberated by the Doctoral School Committee, the Admission Committee may admit to the School up to **20%** more of the total assigned places, candidates who are eligible in the general classification list, if they belong to the following categories:

- applicants from non-E.U. countries who have been awarded any kind of grant;
- 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);
- candidates who have been awarded a research grant under Italian Law 449/97, art. 51.

Art. 8 – HOW TO ENROL

Short-listed applicants must submit their application for enrolment to:

“Università degli Studi di Trento– Direzione Servizi e Comunicazione – Ufficio Dottorati di Ricerca, Via Inama 5 – 38100 Trento – ITALY”

within 30 days **following publication of the short-list on the website:**

<http://portale.unitn.it/en/ec/phd/ict.htm>

Application must contain, where applicable, receipt of payment of TDS (“tassa per il diritto allo studio universitario”) for the right to university study.

In their applications (forms are available at the **Central Office of Doctoral Studies** or can be downloaded from the website: <http://portale.unitn.it/ic/dott.htm> in Italian and <http://portale.unitn.it/en/ec/phd.htm> in English) candidates should:

- ask / not ask to be awarded a grant (successful applicants who are not eligible for a grant can also fill in this option in case an applicant eligible for a grant gives up his/her place);
- declare that they already receive / do not receive a grant by the Italian Ministry of Foreign Affairs or by other Italian or foreign institution;
- declare that they have / have not already been awarded a grant for an Italian Doctorate (even for one year only);



- declare that they are not already enrolled and undertake not to enrol in any other courses for a diploma, degree, an Italian "Scuola di Specializzazione", Doctorate or master degree, whether of the I or the II level, for the duration of this Doctoral Programme; if they are, they will stop attending such a school before the start of the Doctoral Programme;
- declare they are / are not an Italian public body employee;
- declare to request the Doctoral School Committee authorisation for any occupation;
- undertake to inform the University of any changes of their residence or address.

Successful non EU applicants who have a foreign qualification must attach their degree certificate with the examinations passed and the grades obtained, translated and authenticated by an Italian Consulate, Embassy or Diplomatic Representative in the country of the university that issued the degree and the respective declaration of validity ("Dichiarazione di Valore") no later than **31.10.2007**.

Short-listed applicants who do not send their application within 30 days following the date of publication of the short-list on the website: <http://portale.unitn.it/en/ec/phd/ict.htm> will lose the right to enrol and the corresponding place is consequently offered to the next applicant on the short-list as outlined in art. 7 of the present call.

At the end of the enrolment period, Doctoral students must communicate via e-mail (infoICT@ict.unitn.it) to the School Secretariat the exact date of their arrival. Doctoral students who cannot be in Trento at the beginning of the academic year must put forward the adequate motivations and justifications in writing. The latest date of arrival in Trento, only in exceptional cases, cannot be later than the 8th of January of the subsequent year, otherwise might face exclusion from the School.

Art. 9 – SCHOLARSHIPS

Scholarships are assigned on the basis of the short-list of applicants given in order of merit done by the Admission Committee.

If a candidate renounces to the study grant, it will be offered to the following candidate on the short –list.

The Scholarship annual gross amount for 2007¹ amounts:

- Euro 11.642,62 for doctorate students resident in Italy
- Euro 12.394,98 for doctorate students resident abroad it might be applied the convention in order to avoid double taxation.
- Euro 11.982,21 for the doctorate students resident in Italy enrolled to other compulsory insurance.

Scholarships cannot be combined with other scholarships, except those awarded by national or foreign scientific institutes for periods spent abroad which are deemed useful for the research activities of the student.

Grants are normally paid bi-monthly in advance, with recoupment of undue payments in case the student is excluded or suspended, as laid down in the University Regulations for Doctoral Schools, art. 24.

Scholarship is increased by 50% for periods spent abroad that have been authorised by the Head of the School or by the Doctoral School Committee.

Scholarship is awarded for the entire duration of the School following confirmation by the Doctoral School Committee on the results achieved every year.

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

Should a student renounce his/her studies throughout the course of the year then he/she also renounces the corresponding amount awarded with the scholarship.

Art. 10 - DOCTORAL STUDENTS RIGHTS AND DUTIES

Doctoral students must undertake to attend the Doctoral School's courses and to carry out research and study activities on a full time basis according to the schedules and the regulations laid down by the Doctoral School Committee as outlined in art. 3 of the present call.

Following the decision of the Doctoral School Committee expulsion from the School is foreseen as well as the consequent forfeit of the right to avail of the scholarship in the case of:

- a) during I academic year - failure to pass the Comprehensive Exam in the two provided sessions. The Doctoral student will be excluded from the ICT International School from the end of the month in which the exam result will be published.
- b) during II academic year - failure to pass the Qualifying Exam. The Doctoral student will be excluded from the ICT International School from the end of the month in which the exam result will be published.

¹ On the date of this call's publication, the actual law establishes ex art. 2 paragraph 26 of Law 335/95 and following amendments, that the scholarship is subject to INPS contribution (16% or 23,25%), according to which 1/3 has to be paid by the doctoral student.



- c) negative assessment by the Doctoral School Committee concerning admission to the next year of the course; the Doctoral School Committee will verify award of the results for the year as well as the diligence and industriousness demonstrated by the Doctoral student in his/her research;
- d) full time contracts as well as subordinate work and any occupation done without authorisation from the Doctoral School Committee;
- e) unjustified and prolonged absences.

Italian public sector employees admitted to the Doctoral School may request leave of absence and may avail themselves of the scholarship for the duration of the programme providing they are no longer receiving any payment.

In the case that the employee declines the grant or is not awarded any grant he/she may continue to receive salary, social security and pension from the public administration. Should the employee choose to end the work relationship during the two years following conferral of the Doctoral title, he/she is obliged to return all payments received for the duration of the Doctoral course.

Foreign students enrolled in the School are obliged to acquire a level of proficiency in the Italian language to allow them to be integrated in an Italian working environment. The ICT International Doctoral School and the University will support the acquisition of the language through the most appropriate means. Furthermore, the level of proficiency will be assessed.

Art. 11 – DOCTORAL TITLE CONFERRAL

The title of Doctor of Research, conferred by the Rector, is granted to students who pass the final examination which will take place at the end of the three year School.

The Examination Committee is nominated by the Rector after consultation with the Doctoral School Committee and according to the University Regulations for Doctoral Schools.

Art. 12 – PERSONAL DATA

The University of Trento, in accordance with Legislative Decree 196/03 ("Code for protection of personal data") and subsequent amendments, uses the applicants' personal data only for the fulfilment of the selection procedures and for institutional reasons.

In observance of the above-mentioned law, participation in the selection allows the University of Trento to publish on the University website the applicants' personal data concerning the results of the selection procedure.

Art. 13 – FURTHER REGULATIONS

For matters not explicitly mentioned in the present call, please refer to art. 4 of Law no. 210 of 03.07.1998, to Ministerial Decree no. 224 of 30.04.1999 and to the University of Trento's University Regulations for Doctoral Schools issued with the Rector's Decree no. 997 of 16.12.2003.

Trento, the 15th of May, 2007

The Rector
prof. Davide Bassi



Form A – E

Admission Call

TO THE RECTOR
OF THE UNIVERSITY OF TRENTO

I, the undersigned, apply to be included in the selection for the International Doctoral School in
ELECTRONICS AREA – 23rd cycle
ICT International Doctoral School

Areas of preference:

- Nano- and Micro- Systems
- Embedded Electronics and Computing Systems
- Remote Sensing and Systems for Environmental Monitoring
- Networking

For this purpose I, the undersigned, declare

Surname:		First Name:		Gender	<input type="checkbox"/> M <input type="checkbox"/> F
Tax Identification Number:		Date of birth:			
Place of birth: City		Province		Country	

PLACE OF RESIDENCE

Street		No.	Postcode
City:		Prov.	
Telephone no.:		Fax:	
E-mail:			

ADDRESS FOR CORRESPONDENCE (if different from residence)

Street		No.	Postcode
City:		Prov.	
Telephone no.:		Fax:	

- I HAVE ITALIAN CITIZENSHIP
- _____ CITIZENSHIP
- DOUBLE CITIZENSHIP, one of them Italian and I have opted for the Italian

For Italian students

- I HAVE AN ITALIAN DEGREE WITH MARK _____ conferred on (date) _____
IN (subject) _____
FROM (University) _____
COUNTRY _____

- I HAVE NOT YET GRADUATED, I am aware that my admission to the Doctoral School depends on the presentation of my degree certificate before the 31.10.2006



STUDYING (subject)			
AT (University)		COUNTRY	

For foreign students

- I HAVE A FOREIGN QUALIFICATION which had been recognised as equivalent to the Italian degree

Italian Rector's Decree recognising equivalence	No.
	on (date)
	University of

GRADUATED - date _____ grade _____

Degree in			
at (University)			
Country		length of the course	

- I HAVE NOT YET GRADUATED, I am aware that my admission to the Doctoral School depends on the presentation of my degree certificate before the 31.10.2007

STUDYING (subject)			
AT (University)		COUNTRY	

- I HAVE A FOREIGN QUALIFICATION and I ask the Doctoral School Committee for recognising its equivalence to the Italian degree (Candidates who have a foreign qualification that has not been officially recognised as equivalent to the Italian degree must send an English translation, signed by the PhD student, to enable the Doctorate School Committee to declare its equivalence.

Successful non EU applicants who have a foreign qualification have to present the degree certificate with exams and grades obtained, translated and certified by the Italian Embassy in the country of the university that issued the degree and the declaration of validity ("Dichiarazione di Valore") no later than the 31.10.2007).

GRADUATED - date _____ grade _____

Degree in			
At (University)			
Country		Length of the course	

- I HAVE A GOOD KNOWLEDGE OF THE ENGLISH LANGUAGE
- I KNOW THE FOLLOWING FOREIGN LANGUAGE(S)

<input type="checkbox"/> Italian	<input type="checkbox"/> French	<input type="checkbox"/> Spanish	<input type="checkbox"/> German	<input type="checkbox"/> _____	<input type="checkbox"/> _____
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- NUMBER OF PUBLICATIONS (if any) _____
- GRE (Graduate Record Examinations) SCORE _____
- Diploma's awards (if any) _____
- PROFESSIONAL ACTIVITY Yes No



UNIVERSITY
OF TRENTO - Italy

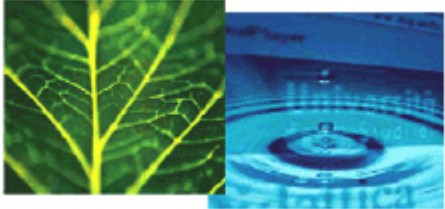
- I UNDERTAKE TO INFORM THE UNIVERSITY OF ANY CHANGES TO MY ADDRESS
- I AM AWARE OF THE REGULATIONS REGARDING THE PRESENT CALL AND WILL ACCEPT SUCH REGULATIONS
- I AM AWARE OF THE UNIVERSITY REGULATIONS REGARDING DOCTORAL SCHOOLS AND I WILL ACCEPT IT
[http://ict.unitn.it/img/eduportal/ict/documents/Regolamento di Ateneo in materia di Scuole di Dottorato di Ricerca ENG.pdf](http://ict.unitn.it/img/eduportal/ict/documents/Regolamento_di_Ateneo_in_materia_di_Scuole_di_Dottorato_di_Ricerca_ENG.pdf)
- I AM AWARE OF THE REGULATIONS OF THE ICT INTERNATIONAL DOCTORAL SCHOOL AND I WILL ACCEPT IT
[http://ict.unitn.it/organi/documents/varie/ict/2007/normeAttuative CGS 25 10 2006 ita eng.pdf](http://ict.unitn.it/organi/documents/varie/ict/2007/normeAttuative_CGS_25_10_2006_ita_eng.pdf)

Date _____

Signature _____



Form B

LETTER OF RECOMMENDATION	
	<p>International Doctoral School in Information and Communication Technology</p>

The following section is to be filled out by the applicant:

Family name _____ First Name _____

Address _____

City _____ Postcode _____ Country _____

Telephone _____ Fax _____ E-mail _____

Writers of letters of recommendation are requested to complete the form below. If additional space is needed, please attach a separate page. In particular, recommenders are asked to provide an assessment of the candidate's abilities to carry out advanced studies and research, together with her/ his main points of strength and weakness. All information will be kept confidential.

Please rate the applicant in comparison with others of her/his age and position whom you have known within the past five years. If possible indicate the number of students with whom you are comparing her/him with:

	Excellent (Top 1-2%)	Outstanding (Top 5%)	Very Good (Top 20%)	Good (Top 40%)	Average	Below Average	Unable to judge
Intellectual ability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motivation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential for autonomous research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Capability to carry out the work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Team work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

How long have you known the applicant?

In what capacity?

Undergraduate Assistant Graduate Research Assistant Teaching

Other:

Ability to follow courses and research work in English:

Adequate Insufficient Unable to judge



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Additional comments:

Signature

Date

Printed name

Position

Address