



UNIVERSITÀ  
DEGLI STUDI DI TRIESTE

Rettorato e Direzione Generale  
Sezione Ricerca e Dottorati  
Ripartizione Dottorati

ULTIMA REVISIONE 9 agosto 2013

**DOCTORAL PROGRAMME IN  
CHEMISTRY**

**NOTE:** This attachment provides only partial information. Exhaustive information, including how to register for the selection, is published in the Admission Announcement posted in the web page <http://www2.units.it/dottorati/> >> Admission Announcement.

Deadline for online application

16<sup>th</sup> September 2013 h.11:30 a.m. CET

**GENERAL DESCRIPTION**

**SUBJECT AREA:**

- main area: 03
- other areas: 09; 05

**MACRO RESEARCH FIELDS:**

- main area: 03/C
- other areas: 03/A; 03/B; 03/D; 09/D; 05/G

**SCIENTIFIC DISCIPLINARY SECTOR:**

- main area: CHIM/06
- other areas: CHIM/01; CHIM/02; CHIM/03; CHIM/08; CHIM/09; CHIM/12; ING-IND/24; BIO/15

**DOMAIN EUROPEAN RESEARCH COUNCIL:**

- PE

**ERC PANELS:**

- main area: PE5
- other areas: PE4; PE8; LS9

Information on the codes can be found online at the address: <http://www.units.it> >> Research >> Doctorates >> Admission >> Admission Announcement and relative attachments - Board of Examiners - Eligible Candidates/Merit list>> Research codes

**RESEARCH FIELDS:**

1. Chemical sciences
2. Pharmaceutical sciences
3. Sciences and technologies of chimica engineering
4. Analytical environmental sciences
5. Food and natural products

**LOCATION: Trieste**

- ORGANIZING DEPARTMENT: Dipartimento di Scienze chimiche e farmaceutiche

**PARTICIPATING DEPARTMENTS:**

- Dipartimento di Ingegneria e Architettura
- Dipartimento di Scienze della Vita

**DURATION: 3 anni**

*Legge 241/1990 - Responsabile del procedimento: Elena Ferraro*

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MAXIMUM NUMBER OF MONTHS TO BE SPENT ABROAD IN THREE YEARS: 18  
OFFICIAL LANGUAGE: italiano

## ADMISSION INFORMATION

TOTAL NUMBER OF PLACES AVAILABLE: ..... 12

SCHOLARSHIPS AVAILABLE WITH INDICATION OF FUNDING BODY:

- [cod GD/1] Dip. di Scienze chimiche e farmaceutiche funded by PRIN + MIUR "Progetto Giovani Ricercatori" (The successful candidate will perform the research project at the Department of Chemical and Pharmaceutical Sciences; the topic will be selected among the Priority Projects proposed for 29th Cycle and published on the web site of the Doctoral Programme <http://www.dscf.units.it/sdstcf/>). The topic of this project must fit within the broader priority topic of the special grant "Improvement of pharmaceutical industry, also through the fine chemistry of natural products for new diagnostic applications and new active principles") ..... 1
- [cod FSE/D/2] Università degli Studi di Trieste funded by the Region Friuli Venezia Giulia, with resources provided by the European Social Fund, Operational Programme 2007/13, Axis 5 Transnational and Interregional Cooperation + Dip. di Scienze chimiche e farmaceutiche su fondi FIRB (The successful candidate will perform the research project at the Department of Chemical and Pharmaceutical Sciences; the topic will be selected among the Priority Projects proposed for 29th Cycle and published on the web site of the Doctoral Programme <http://www.dsch.units.it/sdstcf/>) ..... 1
- [cod MD/3] Università degli Studi di Trieste + Dip. di Scienze chimiche e farmaceutiche (The successful candidate will perform the research project at the Department of Chemical and Pharmaceutical Sciences; the topic will be selected among the Priority Projects proposed for 29th Cycle and published on the web site of the Doctoral Programme <http://www.dsch.units.it/sdstcf/>) ..... 1
- [cod MD/4-7] Università degli Studi di Trieste + Dip. di Scienze chimiche e farmaceutiche su fondi INSTM (The successful candidate will perform the research project at the Department of Chemical and Pharmaceutical Sciences; the topic will be selected among the Priority Projects proposed for 29th Cycle and published on the web site of the Doctoral Programme <http://www.dsch.units.it/sdstcf/>) ..... 4
- [cod GD/8] Dip. di Scienze chimiche e farmaceutiche su fondi PRIN + MIUR "Progetto Giovani Ricercatori" (The successful candidate will perform the research project at the Department of Chemical and Pharmaceutical Sciences; the topic will be selected among the Priority Projects proposed for 29th Cycle and published on the web site of the Doctoral Programme <http://www.dscf.units.it/sdstcf/>). The topic of this project must fit within the broader priority topic of the special grant "Improvement of pharmaceutical industry, also through the fine chemistry of natural products for new diagnostic applications and new active principles") ..... 1

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- [cod FSE/M/9] Università degli Studi di Trieste funded by the Region Friuli Venezia Giulia, with resources provided by the European Social Fund, Operational Programme 2007/13, Axis 5 Transnational and Interregional Cooperation (The successful candidate will perform the research project at the Department of Chemical and Pharmaceutical Sciences; the topic will be selected among the Priority Projects proposed for 29th Cycle and published on the web site of the Doctoral Programme <http://www.dscf.units.it/sdstcf/>) .....1

**Candidates who accept an earmarked scholarship are committed to the pre-assigned topic.**

PLACES WITH JOINT SUPERVISION OF THESIS: students from foreign universities may be admitted to the Ph.D. programme with a joint supervision of their thesis

ACADEMIC QUALIFICATION REQUIRED: see Announcement (art. 2 - Requirements)

1. Italian Master's Degree "Laurea Specialistica/Magistrale" or Degree awarded prior to approval of Ministerial Decree D.M. n. 509 of 3 Novembre 1999, updated with D.M. n. 270 of 22 October 2004, n. 270, (or a qualification corresponding to a Master's -second level- degree);
2. an equivalent foreign academic qualification awarded abroad
3. an academic qualification awarded abroad which is considered to be equivalent to the Italian degree that allows the holder to undertake Ph.D. studies for duration, level and area of study

DEADLINE FOR COMPLETION OF DEGREE: ..... **25/10/2013**

ASSESSMENT CRITERIA: qualifications + oral interview

Only for ESF scholarships: project + qualifications + oral interview

- MAXIMUM FINAL SCORE (the final score is based on the sum total of marks obtained in the interview plus the points given for qualifications and publications):.....120/120
- MINIMUM FINAL SCORE REQUIRED:.....84/120
- MAXIMUM FINAL SCORE only for ESF scholarships (based on the sum of the mark obtained in the oral examination, the points given for qualifications and for the project) .....150/150
- MINIMUM FINAL SCORE REQUIRED (only for ESF scholarships):.....104/150
- MAXIMUM NUMBER OF POINTS AWARDED FOR PROJECT (only for ESF scholarships) .....30/30

Project assessment shall take into account:

- 1 the value of the Research Project in relation to set objectives
- 2 the quality of the Research Project with specific attention to adopted methodology and chronogram of activities

MINIMUM SCORE REQUIRED FOR PROJECT (only for ESF scholarships): .....20/30

- MAXIMUM NUMBER OF POINTS AWARDED FOR QUALIFICATIONS+PUBLICATIONS: 60/60

WEIGHTING OF THE QUALIFICATIONS:

- "Integration to application" (unless this form is presented, qualifications and publications CANNOT be assessed by the Examining Board):
  - a. a detailed curriculum vitae et studiorum: 30/60
  - b. full copy or abstract of the MA thesis in Italian or English (Italian MA theses may

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be from “Laurea vecchio ordinamento” or “Laurea specialistica/magistrale”):  
24/60

c. publications: 6/60

d. letters of presentation (max 2): 0/60

MINIMUM SCORE REQUIRED FOR QUALIFICATIONS/PUBLICATIONS: .....no

- ORAL EXAMINATION MARK OUT OF: .....60/60

MINIMUM SCORE REQUIRED FOR INTERVIEW: .....42/60

**DEADLINE FOR SUBMITTING QUALIFICATIONS AND PUBLICATIONS AND  
PROJECT (IF FORESEEN): ..... 25.10.2013**

QUALIFICATIONS AND PUBLICATIONS MAY BE SUBMITTED (art. 5.1.4 of the  
Ph.D. Announcement):

- as an attachment to the online admission application (upload)
- only for publications that are voluminous or not available in electronic format, as long as they are listed in the form “Integration to application” (digital format preferable): in paper format, by email or by hand to the Prof. Mauro Stener, Dipartimento di Scienze Chimiche e Farmaceutiche, Via L. Giorgieri 1, Università di Trieste, 34127 Trieste, Italy

#### EXAMINATION SCHEDULE:

- INTERVIEW: **29.10.2013 at 10.00 a.m. (Italian time)** at Università degli Studi di Trieste – Dipartimento di Scienze chimiche e farmaceutiche – Building C11 – Sala del Consiglio – 1° floor – Via L. Giorgieri, 1 – TRIESTE

ALTERNATIVE LANGUAGE TO ITALIAN FOR THE INTERVIEW: inglese

### DATI GENERALI

CHAIR: Prof Mauro Stener - Dipartimento di Scienze Chimiche e Farmaceutiche - Università degli Studi di Trieste – Via L. Giorgeri, 1 - tel. 040/558.3949 fax 040/558.3903 e-mail [stener@units.it](mailto:stener@units.it)

WEB SITE: <http://www.dscf.units.it/sdstcf/>

**EDUCATIONAL AIMS:** The Ph. D. in Chemistry is a centre for advanced academic education in the area of chemistry, open to young graduates from Italy and abroad. Its primary objective is that of training doctors with a sound scientific qualification, capable of performing autonomous research project.

The PhD Course involves a large number of Academics from three Departments, that provide a broad range of competence and expertise in the fields of Chemistry, Pharmaceutical Sciences and Chemical Engineering, and offer to the students highly qualified research projects and teaching courses. The PhD course is managed by a Board of Teachers, composed by 17 fulltime Professors and 3 Researchers, all strongly involved in research activities, whose excellent level is testified by the large number of scientific publications (ca. 570 in the period 2007/2012, as shown in the 2012 report “Anagrafe dei Dottorati”) and by the many national and international collaborations. It is worth noting that 5 out of

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the 22 members of the Board of Teachers of the PhD course are among the shortlist of Italian chemists (ca. 100) who belong to the list of “Top Italian Scientist” [http://www.topitalianscientists.org/top\\_italian\\_scientists.aspx](http://www.topitalianscientists.org/top_italian_scientists.aspx) that comprises the Italian scientists having an h factor higher than 30. Prof. Maurizio Prato, ranks in 2nd position among the chemists (1st among those still active). The PhD course comprises 5 broad Research Areas: Chemical Sciences, Pharmaceutical Sciences, Sciences and Technologies of Chemical Engineering, Analytical-Environmental Sciences, Food and Natural Products. For each Area, the course provides the PhD students with a broadly interdisciplinary training that requires the acquisition of concepts, expertise, research methods and experimental techniques. Finally, the students are part of a scientifically stimulating environment, comprising academics and undergraduate and PhD Students and young postdoctoral associates from Italy and other Countries.

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