



UNIVERSITÀ
DEGLI STUDI DI TRIESTE

Rettorato e Direzione Generale
Sezione Ricerca e Dottorati
Ripartizione Dottorati

LAST REVISED 27 ottobre 2014

**PhD IN
CHEMISTRY**
(under the agreement with the University Ca' Foscari Venezia)

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/dott/en/> >> Admission Announcement.

Deadline for online application	21 August 2014 11:30 a.m. (ITALIAN TIME)
Deadline for paying the exam registration (application) fee	21 August 2014
Deadline for submitting qualifications and publications plus the form <i>Integration to the Application</i>	31 August 2014 11:30 a.m. (ITALIAN TIME)
Deadline for completion of the degree required for admission	31 October 2014
Oral examination/interview	Either in video conference: 19 September 2014 beginning at 10:00 a.m. (ITALIAN TIME) you must request an appointment or in person: 22 September 2014 at 10:00 a.m. (ITALIAN TIME)
Documents required (for further details see below " <i>Weighting of the qualifications</i> ")	<ol style="list-style-type: none">1. Form "Integration to the application"2. The following documents:<ol style="list-style-type: none">a. detailed <i>curriculum vitae et studiorum</i>, with a special focus on pre-PhD activities, including a list of exams taken and marks obtainedb. degree thesis (if any)c. publications (if any)d. letters of reference (if any)e. research project connected to the doctoral thesis chosen by the candidate. If the candidate does not submit the research project, s/he will not be admitted to the oral examination.

Legge 241/1990 - Responsabile del procedimento: Elena Ferraro

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IN BRIEF

<i>Lines of research</i>	<ol style="list-style-type: none">1 Biocrystallography2 Pharmaceutical biology3 Inorganic, bio-inorganic and organometallic chemistry4 Organic and bio-organic chemistry5 Homogeneous and heterogeneous catalysis and bio-catalysis6 Supramolecular chemistry and catalysis7 Theoretical and computational chemistry8 Medicinal chemistry9 Analytical and environmental chemistry10 Chemistry for Cultural Heritage11 Electrochemistry and sensors12 Green and sustainable chemistry13 Chemical engineering14 Advanced materials and thin films15 Nanosciences and nanotechnologies16 Molecular spectroscopy17 Pharmaceutical Technologies
<i>Administrative location</i>	University of Trieste
<i>Organizing Department</i>	Department of Chemical and Pharmaceutical Sciences
<i>Participating Departments</i>	Department of Engineering and Architecture
	Department of Life Sciences
<i>Partner University</i>	University of Ca' Foscari Venezia
<i>Partner University Department</i>	Department of Molecular Sciences and Nanosystems
<i>Duration</i>	3 years

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<i>Maximum number of months to be spent abroad by each PhD student</i>		3
<i>Official language</i>		Italian
<i>Language (alternative to Italian) partially used in PhD activities</i>		Some seminars and courses are held in English. If non Italian speaking students are admitted to the PhD, all courses are may be held in English.
<i>Subject Area</i>	<i>main</i>	03
	<i>others</i>	05; 09
<i>Macro Research Fields</i>	<i>main</i>	03/A
	<i>others</i>	03/B, 03/C, 03/D; 05/G, 09/D
<i>Scientific Disciplinary Sector</i>	<i>main</i>	
	<i>others</i>	CHIM/01, CHIM/02, CHIM/03, CHIM/04, CHIM/06, CHIM/08, CHIM/12, BIO/15, ING-IND/24
<i>Domain European Research Council</i>	<i>main</i>	PE
	<i>others</i>	
<i>ERC Panels</i>	<i>main</i>	
	<i>others</i>	PE4; PE5, PE8; LS9
<i>Erasmus Subject Area Codes</i>	<i>main</i>	
	<i>others</i>	06.3, 13.1, 13.3
Information on the codes can be found online at: http://www2.units.it/dott/en/?file=DottBandi.inc >> Admission Announcement and relative attachments (...) >> "Labelling" (file.xls)		
PLACES, SCHOLARSHIPS, RESEARCH GRANTS AVAILABLE		
<i>Total number of places available (excluding R/2 R/3 – see below)</i>		19
LAST UPDATED ON 27.10.2014: 19 places available		
<i>with scholarship</i>		15
LAST UPDATED ON 27.10.2014: 15 places with scholarship		
<i>without scholarship</i>		4
<i>Scholarships/Research grants available with indication of the code, total number and funding body</i>	GD/1-2	2
N.B.: Candidates who accept an earmarked scholarship are committed to the pre-assigned topic. Dep. of Chemical and Pharmaceutical Sciences + MIUR funded by "Progetto Giovani Ricercatori" (The successful candidate will perform the research project at the Department of Chemical and Pharmaceutical Sciences; on one of the topics published on the web site of the Doctoral Programme (http://web.units.it/dottorato/chimica/en)). 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")		

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	MD/3-6	4	University of Trieste + Dep. of Chemical and Pharmaceutical Sciences (The successful candidate will perform the research project at the Department of Chemical and Pharmaceutical Sciences; on one of the topics published on the web site of the Doctoral Programme (http://web.units.it/dottorato/chimica/en)
	UST/7	1	University of Trieste funded by Commissariato del Governo nella Regione Friuli Venezia Giulia "Fondo Trieste" (The project will be developed at Dep. of Chemical and Pharmaceutical Sciences of UniTS on funds received by the by Commissariato del Governo, provided it has a significant impact on the area. Please check http://web.units.it/dottorato/chimica/en)
	C/8	1	University Ca' Foscari Venezia (The project will be developed at Dep. of Molecular Sciences and Nanosystems of UniVE on one of the topics available at Ca Foscari (check http://web.units.it/dottorato/chimica/en). 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")
	C/9-13	5	University Ca' Foscari Venezia (The project will be developed at Dep. of Molecular Sciences and Nanosystems of UniVE on one of the topics available at Ca Foscari (check http://web.units.it/dottorato/chimica/en)
	D/14	1	LAST UPDATED ON 27.10.2014: scholarship [cod D/14] Dep. of Chemical and Pharmaceutical Sciences (The successful candidate will perform the research project at the Department of Chemical and Pharmaceutical Sciences; on one of the topics published on the web site of the Doctoral Programme (http://web.units.it/dottorato/chimica/en)
	D/15	1	LAST UPDATED ON 27.10.2014: scholarship [cod D/15] Dep. of Chemical and Pharmaceutical Sciences (The successful candidate will perform the research project at the Department of Chemical and Pharmaceutical Sciences; on one of the topics published on the web site of the Doctoral Programme (http://web.units.it/dottorato/chimica/en). The topic of this project must fit within the broader priority topic: "Improvement of pharmaceutical industry, also through the fine chemistry of natural products for new diagnostic applications and new active principles")
<i>Reserved places with scholarships/research grants available for graduates at universities abroad [R/1] with indication of the code, total number and funding body</i>	R/1	0	--
<i>Reserved places with no PhD scholarship provided</i>	R/2	0	Scholarships funded by foreign Countries
	R/3	0	Scholarships funded by international mobility programmes

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PhD students from foreign universities may be admitted with a joint supervision of their thesis	Yes
Erasmus Mundus PhD students from foreign universities may be admitted on a joint supervision of their thesis	Yes
Erasmus Mundus PhD students from foreign universities may be admitted on international mobility programmes	Yes

THE SELECTION PROCEDURE																
Academic qualification required: see Announcement: see Announcement (art. 2 - Requirements)	Italian Master's Degree "Laurea Specialistica/Magistrale" or Degree awarded prior to approval of Ministerial Decree D.M. n. 509 of 3 November 1999, updated with D.M. n. 270 of 22 October 2004, n. 270, (or a qualification corresponding to a Master's -second level- degree) An equivalent foreign academic qualification awarded abroad An academic qualification awarded abroad which is considered to be equivalent to the Italian degree that allows the holder to undertake PhD studies for duration, level and area of study															
Deadline for completion of the Degree required for admission	31 October 2014															
Assessment criteria	qualifications + oral examination/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)	100/100															
Minimum final score required for eligibility	60/100															
Maximum score awarded for qualifications+publications	60/60															
Minimum score required for qualifications+publications	36/60															
Weighting of the qualifications Unless the form "Integration to application" is presented, qualifications and publications cannot be assessed by the Examining Board. The form is available at: http://www2.units.it/dott/en/?file=DottBandi.inc&cod=1010	<table><tr><td>a</td><td>detailed <i>curriculum vitae et studiorum</i>, with a special focus on pre-PhD activities including a list of exams taken and marks obtained</td><td></td></tr><tr><td>b</td><td>degree thesis (if any)</td><td>40/60</td></tr><tr><td>c</td><td>publications (if any)</td><td></td></tr><tr><td>d</td><td>letters of reference (if any)</td><td></td></tr><tr><td>e</td><td>research project connected to the doctoral thesis chosen by the candidate. If the candidate does not submit the research project, s/he will not be admitted to the oral examination.</td><td>20/60</td></tr></table>	a	detailed <i>curriculum vitae et studiorum</i> , with a special focus on pre-PhD activities including a list of exams taken and marks obtained		b	degree thesis (if any)	40/60	c	publications (if any)		d	letters of reference (if any)		e	research project connected to the doctoral thesis chosen by the candidate. If the candidate does not submit the research project, s/he will not be admitted to the oral examination.	20/60
a	detailed <i>curriculum vitae et studiorum</i> , with a special focus on pre-PhD activities including a list of exams taken and marks obtained															
b	degree thesis (if any)	40/60														
c	publications (if any)															
d	letters of reference (if any)															
e	research project connected to the doctoral thesis chosen by the candidate. If the candidate does not submit the research project, s/he will not be admitted to the oral examination.	20/60														
If the degree score is not out of 110 it will be converted. Undergraduates will be assigned a score out of 110 based on the average of their exams (provided they submit an official transcript)																
Oral examination/interview score out of	40/40															

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– maximum score	
Oral examination/interview score out of – minimum score	24/40
Deadline for submitting qualifications and publications	31 August 2014
Qualifications and publications shall be submitted: (art. 5.1.4 of the PhD Announcement)	- as an attachment to the online admission application (upload), 11:30 a.m. Italian time only for publications that are voluminous or not available in electronic format, as long as they are listed in the form “Integration to application”: please send the paper version by post to Prof. Mauro Stener, Department of Chemical and Pharmaceutical Sciences, Via L. Giorgieri 1, University of Trieste, 34127 Trieste, Italia
Oral examination/interview	Either in video conference: 19 September 2014 from 10:00 a.m. (ITALIAN TIME) – The Board of examiners will contact the candidates who are eligible for the oral examination and have requested the videoconference interview to agree the schedule of the connection. The Board of examiners will gather in any case at University of Trieste – Dep. of Chemical and Pharmaceutical Sciences – Building C11 – “Sala del Consiglio” – 1° floor – Via L. Giorgieri, 1 – TRIESTE Or in person: 22 September 2014 at 10:00 a.m. (ITALIAN TIME) at University of Trieste – Dep. of Chemical and Pharmaceutical Sciences – Building C11 – “Sala del Consiglio” – 1. floor – Via L. Giorgieri, 1 – TRIESTE
Language(s) of the interview	Italian or English
Language(s) tested in the oral examination/interview	English
CEFR (Common European Framework of Reference for Languages)	--
Videoconference interview	Upon request from the candidate, the interview may be carried out through videoconference, with the same schedule (check 6.2 Admission Announcement)

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WHO'S WHO	
under the agreement with the University Ca' Foscari Venezia	
<i>Chair</i>	Prof Mauro Stener – Department of Chemical and Pharmaceutical Sciences - Università degli Studi di Trieste – Via L. Giorgeri, 1 - tel. 040/558.3949 fax 040/558.3903 e-mail stener@units.it
LAST UPDATED ON 06.08.2014:	
<i>Vice</i>	Prof. Maurizio SELVA – Department of Molecular Sciences and Nanosystems - Università Ca' Foscari Venezia - tel. 041/234.8687 – tel. Lab. 041/234.8982 e-mail selva@unive.it
<i>Web site</i>	http://web.units.it/dottorato/chimica/en
<i>Learning outcomes</i>	The primary goal of the Ph.D course in chemistry is the training in order to obtain proper skills in the chemistry field, to carry on an independent and autonomous research activity. Such skills will be important to be spent in many different situations and institutions, in particular public research institutions (like Universities and Research Institutes) or private companies. In this respect Ph.D students will be trained with a continuous and intense experimental research activity as well as specific high level courses, in order to be competitive at the international level. The future PhD will be trained with all experimental and theoretical tools necessary to manage general problems which will be encountered when developing new chemical compounds or processes, as well as their industrial implications. Special care will be devoted to the international mobility opportunities and to the ability to present and rationalize the results in an effective manner.
<i>Job placement opportunities</i>	The job placement opportunities of a future PhD will be rather wide. First the most adequate job opportunity would be that of a researcher in public institutions or private companies. In particular the PhD title would be important when special need to manage and carry on research or complex problems solving are necessary to be performed in an independent, autonomous and creative way. Also special responsibility positions in industries or large companies would be suitable for PhD.
<i>Main cooperating international Universities and Research Institutions</i>	<ol style="list-style-type: none">1 University of Castilla La Mancha, Spagna2 University of Sidney, Australia3 University of Bordeaux, Francia4 University of Madrid, Spagna5 University of Zürich, Svizzera

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