



UNIVERSITÀ DEGLI STUDI DI TRIESTE

Rettorato e Direzione Generale
Sezione Ricerca e Dottorati
Ripartizione Dottorati

LAST REVISED 28 agosto 2013

DOCTORAL PROGRAMME IN ENVIRONMENTAL LIFE SCIENCES

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

16th September 2013 h.11:30 a.m. CET

GENERAL DESCRIPTION

SUBJECT AREA:

- main area: 05
- other areas: 07; 04; 13; 03

MACRO RESEARCH FIELDS:

- main area: 05/C
- other areas: 05/A; 05/B; 05/I; 07/E; 07/C; 07/A

SCIENTIFIC DISCIPLINARY SECTOR:

- main area: BIO/07
- other areas: BIO/01; BIO/02; BIO/03; BIO/04; BIO/05; BIO/18; BIO/15; AGR/01; AGR/02; AGR/08; AGR/10; AGR/13; AGR/19

DOMAIN EUROPEAN RESEARCH COUNCIL:

- LS

ERC PANELS:

- main area: LS8
- other areas: LS4; LS6; LS7; LS2; LS9; PE10; SH3

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. Ecology and Biodiversity
2. Plant and animal Biology
3. Environmental Toxicology and Genetics
4. Environmental impact of agricultural and feedstock systems
5. Mountain and forestry systems, climatology, hydrology and climate change
6. Soil conservation and bioremediation
7. Land sustainability of economic and energetic systems in agriculture

LOCATION: Trieste

- ORGANIZING DEPARTMENT: Dip. di Scienze della Vita

PARTNER UNIVERSITIES: Università di Udine

Legge 241/1990 - Responsabile del procedimento: Elena Ferraro

Università degli Studi di Trieste
Piazzale Europa, 1
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- Dipartimento di Scienze Agrarie ed Ambientali

NON-ACCREDITED PARTICIPATING INSTITUTIONS:

- Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)
- National Institute of Biology (NIB, Piran, SLO)
- Istituto Zooprofilattico Sperimentale delle Venezie

DURATION: 3 anni

MAXIMUM NUMBER OF MONTHS TO BE SPENT ABROAD IN THREE YEARS: min 2 - max 18

OFFICIAL LANGUAGE: Italian

FINAL QUALIFICATION AWARDED: Joint Degree

ADMISSION INFORMATION

TOTAL NUMBER OF PLACES AVAILABLE: 15

- RESERVED PLACES 3

- [cod R/2] scholarships funded by foreign Countries 2

- [cod R/3] scholarships funded by international mobility programmes 1

SCHOLARSHIPS AVAILABLE WITH INDICATION OF FUNDING BODY:

- [cod D/1] Dip. di Scienze Chimiche e Farmaceutiche funded by UE -Progetto GRAPHENE + Dip. di Scienze della Vita (Project title: "Graphene – Graphene-Based Revolutions in ICT and Beyond") 1

- [cod D/2] Dip. di Scienze della Vita (Project title: "Marine protists biodiversity") 1

[cod D/3] Dip. di Scienze della Vita funded by Istituto Nazionale di Oceanografia e Geofisica Sperimentale - OGS (Project title: "Modelling biogeochemical dynamic and pollutants fate in lagoons ecosystems") 1

- [cod FSE/M/4] 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 (Project title: "Cellular biology of lichen symbiosis") 1

- [cod FSE/M/5] 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 (Project title: "Monitoring invasive alien species in the Italian Karst area") 1

- [cod M/6] Università degli Studi di Trieste 1

- **LAST UPDATED ON 23.08.2013!** [cod C/7-9] Università degli Studi di Udine 3

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:

- 1.1. Italian Master's Degree "Laurea Specialistica/Magistrale" in one of the following fields:
6/S in BIOLOGIA

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7/S in BIOTECNOLOGIE AGRARIE
68/S in SCIENZE DELLA NATURA
77/S in SCIENZE E TECNOLOGIE AGRARIE
85/S in SCIENZE GEOFISICHE
79/S in SCIENZE E TECNOLOGIE AGROZOOTECNICHE
82/S in SCIENZE E TECNOLOGIE PER L'AMBIENTE E IL TERRITORIO
83/S in SCIENZE E CONOMICHE PER L'AMBIENTE E LA CULTURA
86/S in SCIENZE GEOLOGICHE
38/S in INGEGNERIA PER L'AMBIENTE E IL TERRITORIO
LM-6 BIOLOGIA
LM-7 BIOTECNOLOGIE AGRARIE
LM-60 SCIENZE DELLA NATURA
LM-79 SCIENZE GEOFISICHE
LM-80 SCIENZE GEOGRAFICHE
LM-76 SCIENZE ECONOMICHE PER L'AMBIENTE E LA CULTURA
LM-75 SCIENZE E TECNOLOGIE PER L'AMBIENTE E IL TERRITORIO
LM-73 SCIENZE E TECNOLOGIE FORESTALI ED AMBIENTALI
LM-69 SCIENZE
E TECNOLOGIE AGRARIE
LM-70 SCIENZE E TECNOLOGIE ALIMENTARI

1.2. 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), in one of the following fields:

SCIENZE FORESTALI ED AMBIENTALI
SCIENZE GEOLOGICHE
SCIENZE AGRARIE
SCIENZE BIOLOGICHE
BIOTECNOLOGIE AGRARIE-VEGETALI
SCIENZE AMBIENTALI
SCIENZE NATURALI

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: 10.10.2013

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):.....100/100
- MINIMUM FINAL SCORE REQUIRED:**.....70/100
- **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)140/140

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- MINIMUM FINAL SCORE REQUIRED (only for ESF scholarships):.....90/140
- MAXIMUM NUMBER OF POINTS AWARDED FOR PROJECT (only for ESF scholarships).....40/40
- 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):.....20/40
- MAXIMUM NUMBER OF POINTS AWARDED FOR QUALIFICATIONS+PUBLICATIONS: 40/40
- 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: 25/40
 - b. full copy or abstract of the MA thesis in Italian or English (Italian MA theses may be from "Laurea vecchio ordinamento" or "Laurea specialistica/magistrale"):
15/40
- MINIMUM SCORE REQUIRED FOR QUALIFICATIONS/PUBLICATIONS.....25/40
- ORAL EXAMINATION MARK OUT OF:60/60
- MINIMUM SCORE REQUIRED FOR INTERVIEW:.....45/60
- DEADLINE FOR SUBMITTING QUALIFICATIONS AND PUBLICATIONS AND PROJECT (IF FORESEEN): 10.10.2013**
- 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):
 - by mail to Dott. Giulianini, Segretario Dottorato Ambiente e Vita, Via Licio Giorgieri, 5 - 34127 Trieste
- Or
- by hand to Portineria Building Q, Via Licio Giorgieri, 5 34127 Trieste
- EXAMINATION SCHEDULE:
- INTERVIEW: **21.10.2013 at 09.30 a.m. (Italian time)** at Università degli Studi di Trieste – Dipartimento di Scienze della Vita - Building Q – Aula seminari – I° Floor – Via L. Giorgieri, 5 – TRIESTE
- ALTERNATIVE LANGUAGE TO ITALIAN FOR THE INTERVIEW: english (CEFR LEVEL B2), Italian for foreigners (CEFR LEVEL B1)

CONTACT INFORMATION

CHAIR: Prof. Alberto PALLAVICINI - Dipartimento di Scienze della Vita - Via Giorgieri, 5 - ed.Q - Università degli Studi di Trieste - tel. 040558.8736 fax 040.810860 email pallavic@units.it

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WEB SITE: <http://www2.units.it/biomonitor/>

EDUCATIONAL AIMS: This PhD program, resulting from the union of the PhDs in Environmental Biology (University of Trieste) and in Agro-environmental sciences (University of Udine) aims to train highly qualified personnel capable of analytically managing the implementation of national or European Union guidelines regarding the environmental analysis, deepen the methodological aspects related to these issues, and to independently design and carry out environmental monitoring researches as part of a multidisciplinary view of the topics covered by the PhD program. It is structured to increasingly focus the scientific training of the students from the general and theoretical to the experimental aspects.

The name of the doctorate is distinctive and closely linked to the most recent research topics of the members of the teacher's council. They are linked to the study of earth systems and applied life sciences described in the following ERC areas:

- Climatology and climate change (PE10_3); Terrestrial ecology, land cover change (PE10_4); Biogeochemistry, biogeochemical cycles, environmental chemistry (PE10_9); Sedimentology, soil science, palaeontology, earth evolution (PE10_12); Earth observations from space/remote sensing (PE10_14); Hydrology, water and soil pollution (PE10_17);
- Ecology (theoretical, community, population, microbial, evolutionary ecology (LS8_1); Biodiversity, comparative biology (LS8_4); Systems evolution, biological adaptation, phylogenetics, systematics (LS8_3), Biogeography (LS8_6), Conservation biology, ecology, genetics (LS8_5); Animal behaviour (behavioural ecology, animal communication) (LS8_7); Environmental and marine biology (LS8_8); Environmental toxicology (LS8_9), Prokaryotic biology (LS8_10). Agriculture related to animal husbandry, dairying, livestock raising (LS9_3); Aquaculture, fisheries (LS9_4); Agriculture related to crop production, soil biology and cultivation, applied plant biology (LS9_5), Genetics, Population biology, population dynamics, population genetics, plant-animal interactions (LS2/LS8_2), Genomics, transcriptomics, comparative genomics, functional genomics (LS2).
- Environment, resources and sustainability (SH3_1) Social and industrial ecology (SH3_4); Geo-information and spatial data analysis (SH3_12); Spatial development, land use, regional planning (SH3_9).

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