



"Annex 4" updated on 3rd April 2019

(The updates are in red colour)

ANNEX 4

**CALL FOR PHD POSITIONS – 35 cycle
PHD PROGRAMME IN AGRICULTURAL, FOREST AND FOOD SCIENCES**

PhD Programme Coordinator	Prof. Eleonora BONIFACIO
Department	Agricultural, forest and food sciences
PhD Programme Length	3 years
PhD web site	http://dott-safa.campusnet.unito.it
Course start date	1 st November 2019
Departments involved in PhD programme	Department of Agricultural, Forest and Food Sciences

Positions offered ¹	
-n. 9 positions with scholarship, of which n. 2 reserved to candidates with international qualifications	of which: -n. 7 University funded positions -n. 2 Department funded positions (Dipartimento di Eccellenza)
-n. 2 positions without financial support	
-n. 4 positions reserved to students selected within specific international mobility programmes or within specific agreements in which the University of Torino is involved : CSC « China Scholarship Council »	

Titles of Research Projects / Research Fields

The list of research projects is available at the end of this sheet. This list may be updated until Call's deadline.

Calendar of entrance examinations

The calendar with information on dates and venues of entrance examinations shall be published on the websites: <http://www.unito.it/ricerca/fare-ricerca-unito/dottorati-di-ricerca> and <http://en.unito.it/research/phd/phd-programmes> starting from **9th April 2019**.

Useful information for applicants

Application fee: €50.00 for each application submitted.

Candidates with international qualifications are exempted from paying the application fee.

Application fee deadline: 16th April 2019 (mandatory deadline)

Candidates who do not pay the application fee within the deadline will be excluded from the competition.

¹ All additional scholarships and apprenticeship contracts (Art. 45 D.lgs 81/2015) which may become available after the publication of this Call, will be announced on the University websites <http://www.unito.it/ricerca/fare-ricerca-unito/dottorati-di-ricerca> and <http://en.unito.it/research/phd/phd-programmes> until Call's deadline.



CALL FOR NON-RESERVED (ORDINARY) POSITIONS	
Admission procedure for non-reserved (ordinary) positions	
Assessment of qualifications, research project and interview	
Qualifications to be uploaded in the on-line application	
<ul style="list-style-type: none"> • Application form (duly signed and including identification document/passport) • For International qualifications: submit on-line documentation as specified in Art. 4 of this Call • For applicants under condition: provision of Bachelor's degree grade, certificate or self-certification with a complete list of academic transcripts concerning the 1st cycle degree (Laurea Triennale) and 2nd cycle degree (Laurea Magistrale) with marks, weighted average and credits. For applicants applying under condition, please also check Art. 5 of the Call. • Publications (max. 2) • Research project (max 1000 words, excluding references) written in English by the candidate choosing a title within those offered by the PhD Programme 	
Assessment criteria (for non-reserved positions)	Maximum score 100 points
Assessment of qualifications (final grade, publications and other qualifications)	Maximum score 18 points
Final grade of Laurea/ second cycle degree (or list of examinations taken during the Laurea Triennale and Laurea Magistrale/2 nd cycle degree for candidates applying under condition) 110-110L/110 or average examination score 28.1-30/30: 14 points From 107 to 109/110 or average examination score 27.1-28.0/30: 12 points From 104 to 106/110 or average examination score 26.1-27.0/30: 10 points From 100 to 103/110 or average examination score 25.1-26.0/30: 8 points =< a 99/110 or average examination score <25.0/30: 7 points	Maximum score 14 points
Publications 1 point for each publication (max 2 published papers will be evaluated)	Maximum score 2 points
Other qualifications: <ul style="list-style-type: none"> - Second/additional master degree: 1 point - Any other pertinent specialising course related to the topics of the PhD course: 0.5 point - Qualified training experiences carried out abroad: 1 point - Research scholarships: 1 point 	Maximum score 2 points
<i>Titles relating to professional skills, or not pertinent with the research activity, will not be evaluated</i>	
<i>Minimum threshold for admission to the next examination</i>	<i>8 points</i>



Research project	Maximum score 20 points
<i>Minimum threshold for admission to the interview</i>	<i>10 points</i>
Interview	Maximum score 62 points
<i>Minimum threshold for passing the interview</i>	<i>40 points</i>
Further information on assessment for ordinary positions:	
<p>The research project (max 1000 words, references excluded) - The evaluation will take into account the scientific interest of the project, its feasibility, the relevance of its aim and the impact of the outcomes. The project must be written in English, selecting a title within those proposed by the PhD programme. The project should consider:</p> <ol style="list-style-type: none"> the state of the art in the specific field; the aim of the project; the research plan over the three years. <p>The interview will mainly cover the presentation and defence of the research project, and the topic of the master thesis. The interview, on request by the candidate and duly authorised by the examining board, may be taken via Skype (art. 5 of the Call).</p> <p>Knowledge of the English language is compulsory and will be assessed during the interview. Courses are partially held in English.</p>	

CALL FOR POSITIONS RESERVED TO APPLICANTS WITH INTERNATIONAL QUALIFICATIONS	
Admission procedure for positions reserved to applicants with international qualifications	
Assessment of qualifications, research project and interview	
Qualifications to be uploaded in the on-line application	
<ul style="list-style-type: none"> • Application form (duly signed and including identification document/passport) • For international qualifications: submit on-line documentation as specified in Art. 4 of this Call. For applicants applying under condition please check Art. 5 • Master Thesis Abstract • Publications (max. 5) • Research project (max 2000 words, excluding references) written in English by the candidate choosing a title within those offered by the PhD Programme 	
Assessment criteria for positions reserved to applicants with international qualifications	Maximum score 100 points
Assessment of qualifications (cv, thesis abstract and publications)	Maximum score 35 points
<i>Curriculum studiorum et vitae</i> (as by the information provided in the Application Form (Annex 3))	Maximum score 20 points
Abstract of the Master thesis	Maximum score 5 points
Publications 2 points for each publication (max 5 published papers will be evaluated)	Maximum score 10 points



<i>Minimum threshold for admission to the next examination</i>	<i>20 points</i>
Research project	Maximum score 30 points
<i>Minimum threshold for admission to the interview</i>	<i>18 points</i>
Interview	Maximum score 35 points
<i>Minimum interview threshold for passing the interview</i>	<i>20 points</i>
Further information on the assessment for reserved positions	
<p>The thesis abstract (max 400 words) must focus on:</p> <ol style="list-style-type: none">1) purpose of the thesis;2) methodology used;3) results achieved. <p>The research project (max 2000 words, references excluded) - The evaluation will take into account the scientific interest of the project, its feasibility, the relevance of its aim and the impact of the outcomes. The project must be written in English, selecting a title within those proposed by the PhD programme. The project should consider:</p> <ol style="list-style-type: none">a) the state of the art in the specific field;b) the aim of the project;c) the research plan over the three years. <p>The interview will mainly cover the presentation and defence of the research project, and the topic of the master thesis. The interview, on request by the candidate and duly authorised by the examining board, may be taken via Skype (art. 5 of the Call).</p> <p>Knowledge of the English language is compulsory and will be assessed during the interview. Courses are partially held in English. Knowledge of the Italian language is not mandatory.</p>	

Titoli progetti di ricerca

Dottorato di Ricerca in Scienze Agrarie, Forestali ed Alimentari

Titles of research projects

PhD Programme in Agricultural, Forest and Food Sciences

1. Analisi degli attributi di scelta negli stili emergenti di consumo del latte - Purchase and consumption habits in emerging milk consumption patterns (Massaglia)
2. Caratterizzazione e valutazione economica dei servizi di gestione degli ecosistemi nelle Alpi - Characterization and economic evaluation of ecosystem regulation services in the Alps
3. Gestione sostenibile delle colture cerealicole e foraggere – Sustainable management of cereals and forage crops
4. Quantificazione dei servizi ecosistemici forniti da praterie permanenti intensive ed estensive - Ecosystem service delivery from intensive and extensive permanent grasslands (Sacco)



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5. Sostenibilità e qualità nelle colture florovivaistiche - Sustainability and quality in ornamental horticulture
6. Ricerca ed innovazione in sistemi colturali avanzati e tecnologici - Research and innovations in advanced and technological horticultural growing systems (Nicola)
7. Biotecnologie applicate al miglioramento genetico di specie arboree da frutto - Biotechnologies for breeding woody fruit species
8. Percorsi di innovazione verso nuovi consumi nella filiera frutta-verdura - Innovation pathways towards new consumption in the fruit-vegetable Supply Chain (Peano)
9. Marker fisiologici e molecolari della resilienza a stress idrici in piante coltivate - Searching for physiological and molecular markers of drought stress resilience in crop plants
10. Dinamiche di ricostituzione naturale e gestione forestale post-disturbo: approccio multiscala per l'analisi del ruolo ecologico della necromassa - Natural regeneration dynamics and post-disturbance management: a multi-scale approach to assess the ecological role of deadwood
11. Realizzazione e di gestione di piantagioni forestali: problematiche e prospettive - Establishment and management techniques of forest plantations: problems and challenges (Minotta)
12. Resilienza dei boschi e mitigazione di impatto a seguito di disturbi distruttivi - Forest resilience and impact mitigation after stand-replacing disturbances
13. Ricerca e sviluppo di prodotti legnosi innovativi e sostenibili - Research and development on innovative and sustainable wood-based products
14. Genomica strutturale e funzionale in specie ortive - Structural and Functional genomics in horticultural species
15. Scenari di trasferimento tecnologico di tecniche geomatiche al comparto agro-forestale con particolare riferimento all'utilizzo di dati satellitari, aerei e da SAPR - Scenarios of Technology transfer of geomatic techniques to the agro-forestry sector, with special focus on satellite, aerial and RPAS data.
16. Interazioni degli insetti con altri organismi (piante, artropodi, microrganismi e virus) - Interactions between insects and other organisms (plants, arthropods, microorganisms and viruses) (Bosco)
17. Rilevamento, analisi genetica, trasmissione per seme e materiale propagativo di batteri e funghi fitopatogeni emergenti, allo scopo di standardizzare metodi di diagnosi - Survey, genetic analyses, transmission through seed and vegetative material of emerging bacterial and fungal pathogens focusing on standardization of detection methods
18. Epidemiologia e caratterizzazione genetica di batteri e funghi fitopatogeni emergenti nel nocciolo (*Corylus avellana*) allo scopo di standardizzare metodi di diagnosi - Epidemiology and genetic characterization of emerging bacterial and fungal pathogens in hazelnut (*Corylus avellane*) focusing on standardization of detection methods (Mezzalama)
19. Biogeochimica degli elementi nel sistema suolo-pianta dalla scala molecolare alla scala di campo - Biogeochemical cycling of elements in the soil-plant system from molecular to field scale
20. Processi pedogenetici e funzionalità del suolo in ambiente agrario o forestale - Pedogenic processes and soil functions in forest and agricultural ecosystems
21. Innovazioni nella tecnica enologica per il miglioramento della composizione fenolica dei vini rossi italiani - Innovation in oenology to improve the phenolic composition of Italian red wines
22. Sviluppo di nuovi ingredienti e tecnologie per alimenti funzionali - Development of new ingredients and technologies for functional foods (Zeppa)



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23. L'approccio dei servizi ecosistemici nei sistemi di allevamento - Applying the ecosystem services approach to livestock farming systems
24. Da scarto a risorsa: gli insetti nell'economia circolare - From waste to resource: the insect circular economy
25. Studi sul paesaggio rurale: approcci innovativi e integrati per l'analisi e la valutazione dei valori bio-culturali - Studies on the rural landscape; innovative and integrated approaches for the analysis and evaluation of their biocultural values (Larcher).