

AGRICULTURAL, ENVIRONMENTAL AND FOOD SCIENCE AND TECHNOLOGY

Section "Positions and scholarships" integrated on 12/05/2019

Section "Positions and scholarships" integrated on 15/05/2019

Section "Positions and scholarships" integrated on 24/05/2019

Coordinator		Prof. Massimiliano Petracci Department of Agricultural and Food Sciences Viale Fanin , 44 - Bologna m.petracci@unibo.it	
Starting date of the PhD Programme		01/11/2019	
Duration		3 calendar years	
Language of the PhD Programme		English	
Mandatory stay abroad		Yes (3 months)	
Research topics			
<ol style="list-style-type: none"> 1. Agronomy, Herbaceous Crops, Flowers and Vegetables Systems, Agricultural Genetics and Agricultural Chemistry 2. International Cooperation and Sustainable Development Policies 3. Microbial Ecology and Plant Pathology 4. Agricultural and Food Economics and Policy 5. Agricultural Entomology 6. Agricultural Engineering 7. Food Science and Biotechnology 8. Animal Science 9. Tree Production Systems, Fruit, Forest and Ornamental Trees and Grape 10. Water-Food-Energy-Sustainable Agriculture Nexus 			
PhD positions and scholarships			
Position n.	Financial support	Description	Positions linked to research subjects
1	PhD Scholarship	Financed in full from the central budget under the "Departments of Excellence" initiative	
2	PhD Scholarship	Financed in full from the central budget under the "Departments of Excellence" initiative	
3	PhD Scholarship	Financed in full from the central budget under the "Departments of Excellence" initiative	
4	PhD Scholarship	Financed by the University of Bologna general budget by funds from the 5x100 campaign 2016	
5	PhD Scholarship	Totally funded by the University of Bologna general budget	
6	PhD Scholarship	Totally funded by the University of Bologna general budget	
7	PhD Scholarship	Totally funded by the University of Bologna general budget	
8	PhD Scholarship	Totally funded by the University of Bologna general budget	
9	PhD Scholarship	Totally funded by the University of Bologna general budget	
10	PhD Scholarship	Totally funded by the University of Bologna general budget	
11	PhD Scholarship	Totally funded by the University of Bologna general budget	
12	PhD Scholarship	Totally funded by the University of Bologna general budget	
13	PhD Scholarship	Totally funded by the University of Bologna general budget	
14	PhD Scholarship	Financed partly from the University of Bologna central budget and co-financed by the Department of Agricultural and Food	Methodologies for the analysis of the comfort of agricultural tractors

		Sciences, partly with funds from an agreement with CNH S.p.A.	
15	PhD Scholarship	Financed in full from the central budget under the "Departments of Excellence" initiative	Water-Food-Energy-Sustainable Agriculture Nexus
16	PhD Scholarship	Financed in full from the central budget under the "Departments of Excellence" initiative	Water-Food-Energy-Sustainable Agriculture Nexus
17	PhD Scholarship	financed in full from the central budget under the "Departments of Excellence" initiative	Water-Food-Energy-Sustainable Agriculture Nexus
18	PhD Scholarship	Financed by the Department of Agricultural and Food Sciences with funds from Consorzio Cuoiodepur S.p.A.	Fertilizer potential of agro-industrial by-products for agronomic enhancement and environmental safety
19	PhD Scholarship	Financed by the Department of Agricultural and Food Sciences with funds from CRPV (Crop Production Research Centre)	Effect of pre-harvest factors on Pear and Kiwi quality
20	PhD Scholarship	financed by Simbiohl S.r.l.	Innovative strategies to promote animal health and sustainability in the poultry supply chain
21	PhD Scholarship	funded under the three-year High Competence Plan for research, technology transfer and entrepreneurship (POR FSE funds – Resolution n. 462 of 25/03/2019). The assignment of this scholarship is subject to the declaration of residence or domicile of the scholarship holder in Emilia-Romagna.	Integration of by-products and wastes from agro-food chains in the "water-energy-food" nexus (RECOW-ER)
22	PhD Scholarship	financed by Centro Agricoltura Ambiente "Giorgio Nicoli" - CAA	Agroecological management of insect pests on beets cultivated in organic farming
23	PhD Scholarship	provided by Switzerland's Federal Office for Agriculture (DEFRA), Agroscope	Shaping sow's microbiota to improve piglets development and health
24	Industrial doctorate	position reserved to employees of Laimburg Research Centre	Arboreal, Productive, Forestry and Ornamental Systems
25	PhD Scholarship	Financed by the Department of Agricultural and Food Sciences with funds from RPLC Project - Rural Policy Learning Commons, in collaboration with the Government of Canada	Life cycle thinking and information technology for environmental, economic and social sustainability of agri-food supply chains
26	PhD Scholarship	Financed by the Department of Agricultural and Food Sciences with funds from APSOVSEMENTI S.p.A.	Identification of genetic loci relevant for breeding improvement and marker-assisted selection in wheat
27	PhD Scholarship	Financed by the Department of Agricultural and Food Sciences with funds from ISEA S.r.l.	Development of genetic systems and identification of loci relevant for hybrid production in wheat
28	Research grant	Issued by the Department of Agricultural and Food Sciences with funds from Barilla G. e R. Fratelli S.p.A. and Consorzio BESTACK within the framework of "Departments of Excellence" Initiative by MIUR (Law 232 of 01/12/2016). The research grant has a duration of 12 months renewable up to a maximum of 36 months and a gross percipient amount of €19,367.	Biotechnological and molecular approaches to select safe microorganisms for the production of functional dairy products
29	Research grant	issued by the Department of Agricultural and Food Sciences under the High Competence Plan for research, technology transfer and entrepreneurship (POR FSE funds – Resolution n. 589 of 15/04/2019). The research grant shall have a duration of 12 months renewable up to 36 months and a gross percipient amount of € 24.425,94. The assignment of this position is subject to the declaration of domicile of the scholarship holder in Emilia-Romagna.	Impact of wheat genetic diversity and rizosphere microbiota on yield and environmental sustainability

30	Research grant	issued by the Department of Agricultural and Food Sciences within the framework of "Departments of Excellence" Initiative by MIUR (Law 232 of 01/12/2016). The research grant has a duration of 12 months renewable up to a maximum of 36 months and a gross percipient amount of €19,367	Characterization and cloning of root architecture mutants of barley (<i>H. vulgare</i>)
31	PhD Scholarship	Financed by the Department of Agricultural and Food Sciences within the framework of the project H2020 INNOVAR - Grant Agreement n. 818144	Genomics to innovate plant variety registration and value of cultivation and use assessment in wheat

Positions linked to specific research subjects: during the oral examination, applicants may express to the Admission board their interest in one or more positions linked to specific research subjects. Considering the expressions of interest above, the Admission Board will establish if the applicants can be considered eligible for the allocation of the positions linked to specific research subjects, taking into account their skills, experience and aptitude.

Admission requirements

Please, see art. 2 of the Call for applications

Mandatory documents to be attached to the application

Please, see art. 3 of the Call for applications

Further qualifications that may be attached to the application, if in possession of the applicant (only qualifications attested by documents drawn up in Italian, English, French, German and Spanish shall be considered as valid and assessed by the Admission Board)

- Abstract of the second cycle master's degree thesis. Undergraduate applicants may submit the draft of the thesis approved by their supervisor (please, note that abstracts cannot exceed 5.000 characters, including spaces and formula possibly used. The above figure does not include: the title of thesis, the outline, and images such as graphs, diagrams, tables etc. - where present);
- No more than 2 reference letters signed by Italian and international academics and professionals in the research field, which do not form part of the Admission Board, attesting the suitability of the applicant and his/her interest for the scientific research.
Please, note that the above letters cannot be uploaded by applicants. When filling the online application form on <http://studenti.unibo.it>, applicants will be only allowed to provide the email accounts of the requested academic/professional. The latter shall receive an email from the University of Bologna providing for the instructions for uploading. Only letters in pdf format submitted before the expiry date and time of the Call shall be accepted.
- Multi-annual research project, with special emphasis on the activities to be completed during the first-year course. The proposal must meet the following requirements:
 - o It must indicate in the cover page the research topic (**1, 2, 3, 4, 5, 6, 7, 8, 9 or 10**) of the research project proposal and for which the applicant is applying (**research projects without the indication of the research topic in the cover page will be assigned zero points**);
 - o It cannot exceed 20.000 characters, including spaces and formula possibly used. This figure does not include: the title of project, the outline, references and images (such as graphs, diagrams, tables etc - where present);
 - o It must include: the state of the art; description of the project; expected results; lead-time for implementation; (proposed) criteria to be used to assess the findings obtained; references.

The research projects that successful applicants shall carry out during their doctoral career may possibly differ from the project proposed at the application stage. This shall be defined together with the supervisor and approved by the Academic Board.
- Motivational letter. This must include the reasons prompting the applicant to attend the PhD Programme and those relevant experiences and research interests, that make the applicant suitable for the specific PhD Programme (3000 characters maximum, including spaces).
- List of the publications (monographs, articles published on scientific journals, volume's chapters).
- List of the minor publications (conference papers, etc.).
- Professional Master courses completed in Italy (1st or 2nd level) relevant to the PhD Programme.
- Postgraduate vocational training programmes/specialisation programmes relevant to the PhD Programme.
- Research activity of any kind - whether basic, applied, translational, etc. - carried out in any capacity, including when covered by research grants, and as a staff member of research projects..
- Vocational internships;
- Curricular and non-curricular training and guidance internships
- Documents attesting the knowledge of foreign languages
- Study periods completed by students outside their countries of origin (e.g. Erasmus programme or other similar mobility programmes).
- Other qualifications attesting the suitability of the applicants (scholarships, awards, etc).

Admission exams (art. 4 of the call for applications)

Examination type	Schedule (please, note that applicants shall not receive any communication concerning the exams schedule)	Examination results publication (please, note that applicants shall not receive any communication concerning the publication of results)
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Qualifications and research project evaluation	Non-presential.		The results of the qualifications and research project evaluation shall be available online starting from the 31/05/2019 at the page http://studenti.unibo.it (please, select: (please, select “summary of the requests in progress” - “see detail” and open the pdf file “risultati valutazione titoli e progetto”)
Oral examination	Date	06/06/2019 In case that the oral examination cannot be completed in one day due to the large number of applicants, the oral exam schedule shall be made available at the webpage http://studenti.unibo.it together with the results of the qualifications and research project evaluation	The results of the oral examination shall be available on the webpage http://studenti.unibo.it starting from 05/07/2019 (please, select “summary of the requests in progress” - “see detail” and open the pdf file “risultati prova orale”)
	Place	Department of Agricultural and Food Sciences IV floor – Aula Baldoni	
	Time	9 a.m.	
Applicants can ask to take the exam remotely using Skype. For further details please refer to the relevant provision laid down in art. 4 of the Call for applications.			

Evaluation criteria

Points will be allocated to applications out of a total of 100 on the basis of the following weighting:

1. Qualifications and research project

- Minimum for admission to the oral exam: 30 points
- Maximum: 50 points

Only qualifications relating to the last 5 calendar years prior to the calendar year of publication of the Call for applications shall be taken into consideration, with the exception of the University Degree (Diploma di laurea). Please, note that qualifications must be consistent with the PhD Programme.

Points relating to qualifications shall be allocated on the basis of the following criteria:

- Graduation final mark. Undergraduates shall be evaluated on the basis of the Weighted Average Mark (WAM): max 16 points
- Publications: max 4 points
- Further training relevant to the PhD programme, study periods spent abroad at foreign qualified academic and research institutions, reference letters, other qualifications: max 8 points

Points relating to the research project shall be allocated on the basis of the following criteria:

- scientific value and ground-breaking nature of the proposal: max 10 points
- description and structure of the proposal: max 4 points
- proposal feasibility: max 8 points

2. Oral examination

- Minimum for inclusion in the final ranking list :30 points
- Maximum: 50 points

Oral examination includes the presentation of the research project and is intended to assess the suitability of the applicant in respect of the pursuing of scientific research as well as the general knowledge of issues connected to the PhD Programme. During the oral examination, knowledge of English language shall be assessed.

The oral examination is carried out in Italian or in English.

Points relating to the oral examination shall be allocated on the basis of the following criteria:

- knowledge of the English language: max 10 points
- research project presentation: max 20 points
- general knowledge of issues connected to the PhD Programme: max 20 points

Possible evaluation sub-criteria will be available on the [Unibo website](http://unibo.it), selecting the relevant PhD Programme → “PhD programme information” at the bottom of the page in the section “Notices”.

Final ranking list and enrolment (arts.6 and 7 of the Call for applications)

After the publication of the results of the oral exam, the final ranking list will be available on the [Unibo website](http://unibo.it), selecting the relevant PhD Programme → “PhD programme information” at the bottom of the page in the section “Notices”.

Following the publication of the final ranking list, successful applicants must enroll on <http://studenti.unibo.it> by the deadline indicated on the [Unibo website](http://unibo.it), selecting the relevant PhD Programme → “PhD programme information”.