

HEALTH, SAFETY AND GREEN SYSTEMS

Section “PhD positions and scholarships” integrated on 21/04/2020

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Starting date of the PhD Programme		01/11/2020	
Duration		3 years	
Language of the PhD Programme		English	
Mandatory stay abroad		Yes (3 months)	
Research topics			
<p>The PhD programme has a strongly transdisciplinary character, aiming at meeting the growing demand from the social, productive and institutional context for researchers, decision makers and policy makers capable of systematizing the various scientific and professional domains in the field of Health, Safety and Green Systems. The PhD programme trains specialists in relation to specific thematic areas related to complex problems, aggregating - with a strongly integrated approach - disciplines and methodologies related to different scientific fields. In particular, with reference to concepts like urban health, health-focused green systems, promotion of physical activity, rehabilitation, better health and active living in urban environments, the PhD programme is clearly focused on sustainability issues, addressing various of the UN SDGs. The central disciplines of the Phd are: medical and health profession sciences, botanical-pharmaceutical sciences, chemical extraction sciences, toxicology, phytocosmetical and nutritional sciences, agricultural sciences, architectural and civil and environmental engineering sciences, in their different articulations (food production and processing, production, management and design issues related to green systems and urban and territorial systems), and in their mutual relations. The PhD course thus consists of different complementary areas, developed cross-cutting the thematic clusters related to health, safety, and green systems: prevention and promotion of health and safety in the areas of living, working, caring, recreation and sociality; recycling of vegetable matrices for developing new products for the drug, phytocosmetics and food supplements industry; quality control of food supplements based on medicinal herbs or other raw materials; toxicity and safety of no-food supplements and environment; production, design and sustainable management of green areas; resilient cities; biodiversity and ecosystem services; spatial planning.</p>			
PhD positions and scholarships			
Position n.	Financial support	Description	Positions linked to research subjects
1	PhD Scholarship	Totally funded by the University of Bologna general budget	
2	PhD Scholarship	Funded by the University of Bologna general budget and co-funded by the Department of Biomedical and Neuromotor Sciences	
3	PhD Scholarship	Funded by the University of Bologna general budget and co-funded by the Department of Pharmacy and Biotechnology and the Department of Civil, Chemical, Environmental, and Materials Engineering	
4	PhD Scholarship	Funded by the University of Bologna general budget and co-funded by the Department of Agricultural and Food Sciences with funds made available by the project PRIMA “SIMTAP - SELF-SUFFICIENT INTEGRATED MULTI-TROPHIC AQUAPONIC SYSTEMS FOR IMPROVING FOOD PRODUCTION SUSTAINABILITY AND BRACKISH WATER USE AND RECYCLING” (Prof. Daniele Torreggiani)	Environmental sustainability of integrated multitrophic systems
5	Research Grant	Provided by the Department of Agricultural and Food Sciences with funds made available by the following projects: PRIN "Smart Dairy Farming" for 24500 € (Prof. Patrizia Tassinari) and PRIMA “SIMTAP - SELF-SUFFICIENT INTEGRATED MULTI-TROPHIC AQUAPONIC SYSTEMS FOR IMPROVING FOOD PRODUCTION SUSTAINABILITY AND BRACKISH WATER USE AND RECYCLING” for 17500 € (Prof. Daniele Torreggiani). The research grant shall have a duration of 36 months, with gross percipient amount of € 58.620	Modelling, simulations and monitoring for sustainable plant and animal production system through precision techniques

6	PhD Scholarship	Funded by Fondazione Cassa di Risparmio di Imola	Sustainability, environment and health
7	PhD Scholarship	Funded by Fondazione Cassa di Risparmio di Imola	Sustainability, environment and health

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 scholarships linked to specific research subjects, taking into account their specific skills, experience and aptitude. Should one or more of the abovementioned positions remain vacant, eligible applicants from the general ranking list may be contacted.

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 owned by 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)

- Second cycle master's degree thesis. Undergraduate applicants may submit the draft of the thesis approved by their supervisor (not less than 5.000 characters not including spaces, formulas, title, index and images such as graphs, diagrams, tables etc. - where present);
- No more than 2 reference letters signed by Italian and international academics and professionals attesting the aptitude of the applicant and his/her interest for the scientific research. Letters cannot be signed by members of the admission board.
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 addresses of the academic/professional to whom the letter is requested. The latter shall receive an email from the University of Bologna providing the instructions for uploading the reference letter. Only letters in pdf format submitted before the expiry date and time of the Call shall be accepted.
- Multi-annual research project (drawn up in Italian or English), with special emphasis on the activities to be completed during the first-year course, that the applicant proposes to carry out within the PhD Programme. The proposal must meet the following requirements:
 - o It cannot exceed 20.000 characters, including spaces and formula possibly used. This figure does not include: the title of project, the index, references and images (the exceeding part will not be considered);
 - o It must include: the state of the art; description of the project; expected results; phasis of the project and lead-time of realization; (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.
- List of the publications (monographs, articles published on scientific journals, volume's chapters).
- List of the minor publications (conference papers with national and international diffusion, , etc.).
- List of abstracts of oral communications and posters presented during national and international conferences, 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.
- Teaching activity carried out at university level.
- 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.
- Documents attesting the knowledge of foreign languages
- Study and research periods completed outside the applicant's Country of origin (e.g. Erasmus programme or other similar mobility programmes).
- Other qualifications attesting the suitability of the applicants (scholarships, prizes, 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)	
Qualifications and research project evaluation	The presence of applicants is not requested	The results of the qualifications and research project evaluation shall be available online starting from the 08/06/2020 at the page http://studenti.unibo.it (please, select “summary of the requests in progress” - “see detail” and open the pdf file “risultati valutazione titoli e progetto”).	
Oral examination	Date	22/06/2020 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 29/06/2020 (please, select “summary of the requests in progress” - “see detail” and open the pdf file “risultati prova orale”).
	Time	09:30 am (local time)	
	Applicants shall take the exam remotely. 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 scores:

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 10 points
- Publications: max 5 points
- Other qualifications: max 7 points (Diplomas or Master's degrees and specialization courses relevant to the PhD, Programme, research periods carried out in qualified Institutions, reference letters, other relevant qualifications)

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 20 points
- description and structure of the proposal: max 3 points
- proposal feasibility: max 5 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 aptitude of the applicant to pursue scientific research as well as the general knowledge of issues connected to the PhD Programme. The oral examination is carried out in Italian or in English. During the oral examination, knowledge of the English language will be assessed. 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 30 points
- general knowledge of issues connected to the PhD Programme: max 10 points

Possible evaluation sub-criteria will be available on the [Unibo website](#), 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](#), 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](#), selecting the relevant PhD Programme → “PhD programme information”.