# PhD Programme Table - 38th cycle
## Call for Applications for further PhD positions funded by Next Generation EU - NRRP "National Recovery and Resilience Plan" and from other sources

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|---|---|
| PROGRAMME'S NAME | AGRICULTURAL, ENVIRONMENTAL AND FOOD SCIENCE AND TECHNOLOGY |
| DURATION | 3 years |
| PROGRAMME START DATE | 01/03/2023 (DD/MM/YYYY) |
| LANGUAGES | English |
| MANDATORY STAY ABROAD | 3 months |
| COORDINATOR | Prof. Massimiliano Petracci (m.petracci@unibo.it) |
| PhD POSITIONS | 15 |
| ADMISSION PROCEDURE | Qualifications and research proposal evaluation<br>Oral examination |

## Available Positions and Scholarships

| Pos. n. | Financial Support | Description | Positions linked to research topics |
|---|---|---|---|
| 1 | *PhD Scholarship NRRP PE* | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Partenariati Estesi (PE10 - ONFOOD) - CUP J33C22002860001 | Innovative solutions, practices and behaviors on food and nutrition safety, security and sustainability |
| 2 | *PhD Scholarship NRRP PE* | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Partenariati Estesi (PE10 - ONFOOD) - CUP J33C22002860001 | Innovative solutions, practices and behaviors on food and nutrition safety, security and sustainability |
| 3 | *PhD Scholarship NRRP PE* | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Partenariati Estesi (PE10 - ONFOOD) - CUP J33C22002860001 | Innovative solutions, practices and behaviors on food and nutrition safety, security and sustainability |
| 4 | *PhD Scholarship NRRP PE* | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Partenariati Estesi (PE10 - ONFOOD) - CUP J33C22002860001 | Innovative solutions, practices and behaviors on food and nutrition safety, security and sustainability |
| 5 | *PhD Scholarship NRRP PE* | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Partenariati Estesi (PE10 - ONFOOD) - CUP J33C22002860001 | Innovative solutions, practices and behaviors on food and nutrition safety, security and sustainability |
| 6 | *PhD Scholarship NRRP PE* | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Partenariati Estesi (PE10 - ONFOOD) - CUP J33C22002860001 | Innovative solutions, practices and behaviors on food and nutrition safety, security and sustainability |

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| 7 | *PhD Scholarship NRRP PE* | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Partenariati Estesi (PE2 - NEST) - CUP J33C22002890007 | Renewable energy incorporation in agriculture |
|---|---|---|---|
| 8 | *PhD Scholarship NRRP CN* | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Campioni Nazionali (CN BIODIV) - CUP J33C22001190001 | Adaptation and mitigation of Climate Change in terrestrial ecosystems. Ecological responses and future scenarios |
| 9 | *PhD Scholarship NRRP CN* | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Campioni Nazionali (CN AGRITECH) - CUP J33C22001150008 | Integrated strategies for technology innovation and sustainability of agriculture |
| 10 | *PhD Scholarship NRRP CN* | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Campioni Nazionali (CN AGRITECH) - CUP J33C22001150008 | Integrated strategies for technology innovation and sustainability of agriculture |
| 11 | *PhD Scholarship NRRP CN* | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Campioni Nazionali (CN AGRITECH) - CUP J33C22001150008 | Integrated strategies for technology innovation and sustainability of agriculture |
| 12 | *PhD Scholarship NRRP CN* | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Campioni Nazionali (CN AGRITECH) - CUP J33C22001150008 | Integrated strategies for technology innovation and sustainability of agriculture |
| 13 | *Executive PhD* | PhD position reserved for employees of Animal Health and Welfare Department" - "Ministry for Agriculture, Fisheries and Animal Rights" (Malta) | Strategies for improving animal welfare in Malta |
| 14 | *PhD Scholarship* | Funded by the Department of Agricultural and Food Sciences | New approaches to stimulate the transition towards sustainable food systems |
| 15 | *Executive PhD* | PhD position reserved for employees of Piksel S.r.l. | Innovative approaches for the management of green public procurement in agricultural and food systems |

<u>Applicants awarded with PhD scholarships funded by Next Generation EU shall fulfil specific obligations foreseen in the relevant funding scheme and in the relevant regulations.</u>

## Admission Exams

The admission exams detailed schedule shall be published **starting from December 1st, 2022**:
- on the [University website](), selecting the relevant PhD Programme > "More information", at the bottom of the page in the section "Notices";
- on [Studenti Online]() (select "summary of the requests in progress" > "see detail" and open the .pdf file at the bottom of the page). **No personal written communication will be sent to applicants**.

## Required and Supporting Documents to be attached to the application

All the documents listed below **shall be drawn up in English or in Italian**. In case of documents originally issued in any other language (e.g. identity document, qualifications), an official translation is required.
Only qualifications obtained **during the last 5 calendar years** shall be taken into consideration, except for the University Degree. The Admission Board will assess the relevance of the supporting documents to the PhD Programme.

| REQUIRED DOCUMENTS | |
|---|---|
| **Identity document** | Valid identity document with photo (i.e. identity card, passport) |

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| **Curriculum Vitae** | The Curriculum Vitae shall contain on the first page a **Summary**, duly filled, in Attachment 1 to the present PhD programme table and downloadable in .docx from the University Website (select the PhD Programme → "*More information*", then check "*Notices*" at the bottom of the page). **A 5 points penalty on the total qualification evaluation score shall be applied to applicants not attaching the summary.** |
| **Degrees** | Documents attesting the awarding of the first and second cycle degrees, the exams taken and the marks obtained (see Art. 3 of the Call for Applications) |
| **Research proposal** | Multi-annual research proposal, with special emphasis on the activities to be completed during the first-year course. The proposal must meet the following requirements: <br> - It must be written following the **Research proposal Template**, in Attachment 2 to the present PhD programme table and downloadable in .docx from the University Website (select the PhD Programme → "*More information*", then check "*Notices*" at the bottom of the page <br> - It must mention **on the cover page the specific research topic** of the PhD Programme the applicant is interested in and that covers the research project proposal. The **proposals written without following the template will receive 0 points**; <br> - it **cannot exceed 20,000 characters**, including spaces and formulas, if present. This figure does not include: the title, the outline, references and images (such as graphs, diagrams, tables etc - where present); <br> - **It must include**: the state of the art and consistency with the applicant study and research path; description of the project; expected results articulation of the proposal and implementation times; outlining of the criteria meant to be used to assess the research results; references. <br><br> The research proposal will not necessarily be the topic of the candidate's doctoral research, if admitted; the research project to be carried out during the PhD Programme will be agreed upon with the Supervisor and approved by the Academic Board. |
| **SUPPORTING DOCUMENTS** | |
| **Thesis abstract** | Abstract of the **second cycle degree thesis.** Graduands applicants may submit the draft of the thesis. Abstracts cannot exceed 5,000 characters, including spaces and formula possibly used. The above figure does not include: the title of the thesis, the outline, references, and images such as graphs, diagrams, tables etc. |
| **Reference letter/s** | **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 in the scientific research. Letters shall be uploaded following the procedure detailed in the Call for Applications (Art. 3.2). |
| **Publications** | Lists of publications (i.e. monographs, articles on scientific journals), minor publications (conference papers, etc.), abstracts and posters presented during national and international conferences, etc. |
| **Other documents** | - Postgraduate vocational programmes and/or specialisation programmes relevant to the PhD Programme <br> - 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 <br> - Study periods completed by applicants outside their countries of origin (e.g. Erasmus programme or other similar mobility programmes) |

# Evaluation criteria*

Scores will be expressed in points out of 100, as follows.

### 1. Qualifications and research proposal evaluation

Minimum score for admission to the oral examination: 30 points, Maximum score: 50 points

| Qualifications evaluation | Second cycle degree (Master's) final mark. Graduands shall be evaluated according to the Weighted Average Mark (WAM) | 14 points max |
|---|---|---|
| | Publications | 3 points max |
| | Research activity, study periods abroad, reference letter/s, other evaluable documents | 5 points max |

| Research proposal evaluation | Scientific value and ground-breaking nature of the proposal | 14 points max |
| | Consistency with the applicant's study path | 4 points max |
| | Structure of the proposal | 6 points max |
| | Proposal feasibility | 4 points max |

2. **Oral examination**

Minimum score for eligibility: 30 points, Maximum score 50 points

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| English language proficiency | 10 points max |
| Research proposal presentation | 10 points max |
| General knowledge of the research topics linked to the available PhD positions | 20 points max |

Oral examination aims to assess the suitability of the applicant for scientific research as well as the general knowledge of the research topics linked to the available PhD positions. **During the oral examination, the applicant's English proficiency shall be assessed**.

The oral examination is carried out in Italian or English.

\* Possible further evaluation criteria will be available on the University website, selecting the relevant PhD Programme > "More information".

## Curriculum Vitae Summary

### *PhD Programme in Agricultural, Environmental and Food Science and Technology*

## Personal Information

| | |
|---|---|
| First name(s) / Surname(s) | |
| Nationality | |
| Date of birth (day, month, year) | |
| Gender | |
| Email address | |

## University Education

### *Master*

| | | | | |
|---|---|---|---|---|
| Official duration in years | | | | |
| Dates (start – end or planned end) | | | | |
| Awarding institution | *(e.g. University of Bologna - Italy)* | | | |
| Title of qualification awarded | *(e.g. MSc in Biology)* | | | |
| **Marks** | **YOUR mark** | **Minimum PASS mark** | **Maximum mark** | **ECTS conversion (*if available)*** |
| Final grade (if available) | | | | |
| Weighted average of exam marks | | | | |
| Title and topic of Master Thesis | | | | |

## Research and Study Abroad Experiences

### *List periods of study abroad (Erasmus and/or others), and research periods at universities or public/private institutions (only the last 5 years will be considered)*

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| **Scientific research of any kind (basic, oriented, translational, applied etc.)** |
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| **Periods of study abroad (*e.g.* Erasmus)** |
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## Other qualifications

*List other experiences relevant to the PhD Programme (only the last 5 years will be considered)*

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| **University Master Courses (Master universitari di I e II livello) relevant to the PhD Programme** |
| **Postgraduate training programmes/specialization programmes relevant to the PhD Programme** |
| **Internships** |
| **University teaching at any level** |
| **Other qualifications attesting the applicant's skills and education (prizes, grants etc.)** |

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*Template for the Research Proposal*

## *COVER PAGE*

**Name:**

**Surname:**

**Title of the project:**

**Indicate the specific research topic you would like to work on** (the list of the available PhD positions linked to a specific research topic is in the PhD programme table, page 1)**:**

**NB:** it must be not indicated the name of possible professors who will be responsible for the PhD candidate research activity and the thesis; a supervisor is appointed by the Academic Board only after enrollment.

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## *PROPOSAL DESCRIPTION*

The project description, with special emphasis on the activities to be completed during the first-year course, cannot exceed 20.000 characters, including spaces and formula possibly used. This figure does not include references and images (such as graphs, diagrams, tables etc - where present). It must contain the following elements:

**1. State of the art.** Provide a brief survey of existing research efforts and scientific basis, preferably with references to scientific literature. If your project is a part of a larger research effort requiring coordination, explain specifically your planned contributions within the larger framework. Ouline the essential elements showing consistency between the submitted research proposal and the applicant's training path and previous experiences

**2. Description of the project.** Present the main objective and a brief summary, explaining how you intend to attain your goal. Describe how you are planning to use empirical, analytical or other methods for your research.

**3. Expected results.** The description of expected results should address impact on science, technology and society, if appropriate.

**4. Lead-time for implementation.** Outline a research plan for each year.

**5. Proposed criteria to be used to assess the findings obtained.** The project timeline should contain measures of achievement.

**6. References.** Please list applicable references.