

**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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European Union**  
NextGenerationEU



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA

Section “Available Positions and Scholarships” integrated on 29/11/2022

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| PROGRAMME’S NAME   | <b>ASTROPHYSICS</b>  |
| ASSOCIATED PARTNERS<br>Pursuant to art. 3 para 2 lett. b)<br>of the MD n. 226/2021 | Istituto Nazionale di Fisica Nucleare - INFN   |
| DURATION   | 3 years  |
| PROGRAMME START DATE   | 01/03/2023 (DD/MM/YYYY)  |
| LANGUAGES  | English  |
| MANDATORY STAY ABROAD  | 3 months   |
| COORDINATOR  | Prof. Andrea Miglio ( <a href="mailto:andrea.miglio@unibo.it">andrea.miglio@unibo.it</a> ) |
| PhD POSITIONS  | 3  |
| ADMISSION PROCEDURE  | Qualifications evaluation<br>Oral examination  |

### Available Positions and Scholarships

| Pos. n. | Financial Support                  | Description   | Positions linked to research topics   |
|---------|------------------------------------|---|---|
| 1       | <b>PhD Scholarship<br/>NRRP IR</b> | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Infrastrutture di Ricerca (IR STILES) CUP C33C22000640006 | In-depth study of scientific cases relating to instrumentation MORFEO+MICADO@ELT  |
| 2       | <b>PhD Scholarship<br/>NRRP IR</b> | Funded by the EU - NextGenerationEU with funds made available by the National Recovery and Resilience Plan (NRRP) - Infrastrutture di Ricerca (IR STILES) CUP C33C22000640006 | Study of the opto-mechanical stability and the optical performances of the future instrumentation at the extremely large telescopes |
| 3       | <b>PhD Scholarship</b>             | Funded by the Department of Physics and Astronomy with funds made available by the project FARE Grant “DUETS” Code: R2044PWWJK - CUP J33C21000410001                          | Identifying and characterising populations of binary stars using asteroseismology   |

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.

### Admission Exams

The admission exams detailed schedule shall be published **starting from December 1<sup>st</sup>, 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        |  |
|---------------------------|--|
| <b>Identity document</b>  | Valid identity document with photo (i.e. identity card, passport)  |
| <b>Curriculum Vitae</b>   | No specific CV format is required  |
| <b>Degrees</b>            | 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)   |
| SUPPORTING DOCUMENTS      |  |
| <b>Thesis abstract</b>    | Abstract of the <b>second cycle degree thesis</b> . Graduates 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.   |
| <b>Reference letter/s</b> | <b>No more than 3 reference letters</b> 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 on <a href="#">Studenti Online</a> , detailed in the Call for Applications (Art. 3.2).   |
| <b>Publications</b>       | Lists of publications (i.e. monographs, articles on scientific journals)   |
| <b>Other documents</b>    | <ul style="list-style-type: none"> <li>- 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</li> <li>- Curricular and non-curricular training internships</li> <li>- Documents attesting the knowledge of foreign languages</li> <li>- Study periods completed by applicants outside their countries of origin (e.g. Erasmus programme or other similar mobility programmes)</li> <li>- Other qualifications attesting the suitability of the applicants (scholarships, prizes, etc.)</li> </ul> |

## Evaluation criteria\*

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

### 1. Qualifications evaluation

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

|   |               |
|---|---------------|
| First (Bachelor's) and Second cycle degree (Master's) final mark. Graduates shall be evaluated according to the Weighted Average Mark (WAM) | 30 points max |
| Publications  | 2 points max  |
| Curriculum Vitae evaluation (e.g. thesis abstract, reference letters, other qualifications)   | 18 points max |

### 2. Oral examination

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

|  |               |
|--|---------------|
| General knowledge of the research topics linked to the available PhD positions | 50 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".