



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

AREA
FORMAZIONE E DOTTORATO

PHD PROGRAMME TABLE

Call for applications for the admission to the PhD programmes (42nd cycle) - A.Y. 2026/2027 Second round

Section “Available Positions and Scholarships” integrated on 27/05/2026

PROGRAMME'S NAME	ASTROPHYSICS
ASSOCIATED PARTNERS Pursuant to art. 3 para 2 lett. b) of the M.D. n. 226/2021	Istituto Nazionale di Fisica Nucleare - INFN
DURATION	3 years
PROGRAMME START DATE	01/11/2026 (DD/MM/YYYY)
LANGUAGES	English
COORDINATOR	Prof. Andrea Miglio (andrea.miglio@unibo.it)
PHD POSITIONS	16
ADMISSION PROCEDURE	Qualifications evaluation Oral examination

Available Positions and Scholarships

Pos. n.	Financial Support	Description	Positions linked to research topics
1	PhD Scholarship	Funded by the Dept. of Physics and Astronomy “Augusto Righi” with funds made available by the project ERC_VAZZA Project 101224803 — COSMOMAG CUP J33C26000410006	Studying cosmic magnetism with constrained simulations of the local Universe (for further information please check the following document COSMOMAG.pdf)
2	PhD Scholarship	Funded by the Dept. of Physics and Astronomy “Augusto Righi” with funds made available by the project HEU_2023_BELOVED_BONAFE_A_01 - HEU_2023_BELOVED BONAFEDE ERC 101169773 B-field EvoLution and Origin in Vast Extragalactic Domains CUP J33C24003120006	Probing magnetic fields in the low-density medium around galaxy clusters (for further information please check the following document BELOVED.pdf)
3	PhD Scholarship	Funded by the Dept. of Physics and Astronomy “Augusto Righi” with funds made available by the project FIS3_GENESIS_FERRARO - FIS 202402056 Searching for the primordial structures of the Universe in the heart of the Galaxy CUP J53C25002340001  Ministero dell'Università e della Ricerca	GENESIS: Searching for the primordial structures of the Universe in the heart of the Galaxy – Models (for further information please check the following document GENESIS3.pdf)
4	PhD Scholarship	Funded by the Dept. of Physics and Astronomy “Augusto Righi” with funds made available by the project FIS3_GENESIS_FERRARO - FIS 202402056 Searching for  FIS	GENESIS: Searching for the primordial structures of the Universe in the heart of the

		the primordial structures of the Universe in the heart of the Galaxy CUP J53C25002340001   	Galaxy – Chemistry (for further information please check the following document GENESIS-CHEMISTRY.pdf)
5	PhD Scholarship	Funded by the Dept. of Physics and Astronomy “Augusto Righi” with funds made available by the project FIS3_GENESIS_FERRARO - FIS 202402056 Searching for the primordial structures of the Universe in the heart of the Galaxy CUP J53C25002340001   	GENESIS: Searching for the primordial structures of the Universe in the heart of the Galaxy – Kinematics (for further information please check the following document GENESIS-KINE.pdf)
6	PhD Scholarship	Funded by the Dept. of Physics and Astronomy “Augusto Righi” with funds made available by the project FIS3_GENESIS_FERRARO - FIS 202402056 Searching for the primordial structures of the Universe in the heart of the Galaxy CUP J53C25002340001   	GENESIS: Searching for the primordial structures of the Universe in the heart of the Galaxy – Photometry (for further information please check the following document GENESIS-PHOTO.pdf)
7	PhD Scholarship	Totally funded by the University of Bologna general budget	Research topic to be chosen among those listed in the document DiFA projects.pdf
8	PhD Scholarship	Totally funded by the University of Bologna general budget	Research topic to be chosen among those listed in the document DiFA projects.pdf
9	PhD Scholarship	Totally funded by the University of Bologna general budget	Research topic to be chosen among those listed in the document DiFA projects.pdf
10	PhD Scholarship	Totally funded by the University of Bologna general budget	Research topic to be chosen among those listed in the document DiFA projects.pdf
11	PhD Scholarship	Funded by the University of Bologna general budget and by the Dept. of Physics and Astronomy “Augusto Righi”	Research topic to be chosen among those listed in the document DiFA projects.pdf
12	PhD Scholarship	Funded by the National Institute for Astrophysics (INAF)	Research topic to be chosen among those listed in the document INAF-IRA.pdf
13	PhD Scholarship	Funded by the National Institute for Astrophysics (INAF)	Research topic to be chosen among those listed in the document INAF-OAS.pdf
14	PhD Scholarship	Funded by INAF- Institute for Radio Astronomy (IRA) with funds made available by the FIS 2 “DARKER” project – CUP C53C25000300001, with the contribution of the Italian Ministry of University and Research with “Fondo Italiano per la Scienza 2”   	Gravitational lensing in the time domain (for further information please check the following document Spingola.pdf)
15	PhD Scholarship	Funded by INAF- Institute for Radio Astronomy (IRA)	Efficient diffuse radio emission in the cosmic web: modelling particle acceleration in cosmological simulations (for further information please check the following document Gheller.pdf)

16	PhD Scholarship	Funded by the Dept. of Physics and Astronomy “Augusto Righi” with funds made available by the project FIS3-2024-01559 "Radio NEXT: Radio mapping beyond galaxy clusters" CUP C53C25001060001 (PI Virginia Cuciti)	Radio NEXT: Diving into galaxy clusters with the most powerful radio telescopes (for further information please check the following document Radio NEXT.pdf)
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Details of the available research lines can also be found on the PhD course website at: [2026 Call - fellowships and projects](#).

The yearly gross amount of the scholarships awarded for the PhD Programme in “Astrophysics” is €18,341.04. All winners of PhD positions must fulfil the study and research obligations decided by the Academic Board, as well as the obligations set out in the relevant regulations, in the call for applications, in the funding schemes and in any agreements relating to specific positions.

Admission Exams

	DATE AND TIME	RESULTS
Qualifications evaluation	Applicants' participation is not required	Available from 28/06/2026
Oral examination	Date: starting from 06/07/2026 – 9.00 a.m. CEST Place: In presence, Sala Antonio Sollima 4E10, INAF, Via Gobetti 93/3, Bologna. Remotely, using Microsoft Teams	Available from 15/07/2026

The results of the qualifications evaluation, as well as the oral examination detailed schedule, shall be available on the webpage [Studenti Online](#) (select “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 concerning the examinations results.

During the oral examination, applicants will express their interest in one or more PhD positions linked to specific research topics.

Required and Supporting Documents to be attached to the application

Only documents in Italian or English will be considered valid and will be assessed by the Admission Board. Identity documents and diplomas/degree certificates issued in a language other than Italian or English must be accompanied by an official translation. The translation must be carried out by an authorized body or by the awarding university. Only qualifications obtained in the last 5 years will be taken into account, with the exception of university degrees. 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)
Curriculum Vitae	Applicants must draw up their Curriculum Vitae according to the Curriculum Vitae form , downloadable in .docx from the University website (select the PhD Programme → “More information”, then check “Notices” at the bottom of the page). This document provides a structured overview of the following information: - academic background and grades; - degree thesis and abstract; - research experience; - internships and research training; - publications and other academic contributions; - participation in courses, workshops and conferences; - research proposals; - international experience; - teaching, outreach, awards and other honours; - language certificates; - names of referees.

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)
SUPPORTING DOCUMENTS	
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 on Studenti Online , detailed in the Call for Applications (Art. 3.2).

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. Graduands shall be evaluated according to the Weighted Average Mark (WAM)	25 points max
Publications	2 points max
Curriculum Vitae evaluation (e.g. thesis abstract, reference letters, other qualifications)	23 points max

2. Oral examination

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

General knowledge of the PhD programme's main research topics and of the research topics linked to the available PhD positions	50 points max
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Oral examination aims to assess the suitability of the applicant for scientific research as well as the general knowledge of the PhD programme's main research topics and 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".