

CALL FOR APPLICATIONS FOR THE AWARD OF RESEARCH  
FELLOWSHIPS

Regulation on Research Fellowships pursuant to Italian Law no. 240/2010  
Alma Mater Studiorum University of Bologna, issued by Rectoral Decree no. 416  
of 19/04/2011

Protocol num. 2574 Rep. 381 Fascicolo 7977410 dated 29/11/2022

*Art. 1 - Purpose*

Applications are invited for the selection running at (structure): DIPARTIMENTO DI FISICA E ASTRONOMIA of the Alma Mater Studiorum University of Bologna for the award of 1 grant research fellowship(s), for the execution of research activities within the project entitled “Machine learning to detect the onset of atmospheric convection”, according to the annexed Activity Programme. The call for applications for the research fellowship is **issued pursuant to the University Regulation** issued by Rectoral Decree (D.R.) no. 416 of 19/04/2011, cofunded with UE TRIGGER project and residual previous years' BIR funds, approved by the structure in the session of Friday, October 14, 2022.

The activities shall be carried out under the supervision of a tutor identified by the structure as Prof. NATALE ALBERTO CARRASSI, in a non-subordinate relationship with no set working hours.

The main place of work will be: DIPARTIMENTO DI FISICA E ASTRONOMIA , V.LE BERTI PICCHAT, 6/2, 40127, BOLOGNA

*Art. 2 - Requirements for candidacy*

The selection is open to candidates in possession of the following qualification:

- PhD in **Physics, Mathematics, Computer Science, Engineering, Chemistry, Environmental Sciences** or old system or equivalent.
- 2nd cycle/specialist degree or degree from previous system or equivalent qualification in **Physics, Mathematics, Computer Science, Computer systems Engineering, Mechanical Engineering, Civil Engineering, Automation Engineering, Environmental Engineering**, only in the event of possession of a certificate of passing the last year of the PhD..
- Competences/requirements laid down for candidates: **Programming skill in Python, Knowledge of data assimilation, Knowledge of machine learning..**

Candidates must possess the admission requirements on the deadline for submission of applications laid down in this call. Candidates who do not possess the admission requirements will not be considered.

The selection is not open to any persons who are related by blood or by marriage up to the fourth degree, to a professor working in the department or structure for which the call is issued, or to the Rector, Director General or a member of the Board of Governors of the University.

The selection is also not open to anyone who has held research fellowship contracts with any institution, pursuant to Italian Law no. 240/2010, for a period which, summed to the foreseen duration of this contract, exceeds a total of 6 years, excluding any period in which the contract coincided with a PhD without scholarship, for the maximum limit of the legal duration of the PhD programme.

Furthermore the selection is not open to anyone who has had research fellowship or fixed-term researcher contracts at the University of Bologna or any other state-funded, private-funded or distance-learning Italian university pursuant to articles 22 and 24 of Italian Law 240/2010, or with any other body listed in paragraph 1 of Art. 22 of Italian

Law 240/2010 for a period which, summed to the foreseen duration of this contract, exceeds a total of 12 years, even if not consecutive. For the purposes of the duration of the above-described periods, in compliance with the laws in force any periods of maternity or sick leave shall not be calculated.

### ***Art. 3 - Application***

Applications may only be submitted online by accessing the website: <https://concorsi.unibo.it>, after completing the registration process, following the web procedure instructions. **The last day available to submit the application is Monday, May 15, 2023 at 23:59 - Europe/Brussels**; applications submitted after this time will not be considered. The date shown on the receipt sent electronically to the candidate is deemed to be the date of the application submission.

Any communications will be sent to candidates exclusively via email, to the address provided in the application.

In the online application, following the web procedure instructions, candidates must indicate, under their own responsibility:

- surname and name;
- date and place of birth;
- nationality;
- residence and chosen address for correspondence for the purposes of this selection;
- that they do not have a criminal record and are not involved in any current criminal proceedings (or if so, state which);
- that they have the qualification required by art. 2 of the call for applications, specifying the University and year in which it was obtained;

or

- that they possess an academic qualification obtained abroad, which is deemed equivalent.

The candidates in possession of a qualification obtained abroad must annex to their applications a translation into Italian of their foreign qualification, accompanied by a sworn statement that it is a faithful translation of the original certificate.

The foreign qualification may be declared admissible by the Evaluation Board, solely for the purposes of admission to the selection procedure.

**In case of award, the winning candidates having obtained their qualification in a country outside of the European Union, must provide the Structure, in the same manner as laid down for the presentation of applications, the official translation with a declaration of value of the foreign qualification issued by the competent diplomatic representation or Italian consulate in their home country, in accordance with the applicable laws, **within 40 days from the notification of official approval of the selection procedure reports**.** If the documents are not received by the Structure within the stated deadline, the candidate will not be awarded the contract.

Candidates must also enclose the following with their applications:

- copy of a valid identity document;
- their scientific and professional curriculum vitae also containing scientific productivity;
- possible scientific publications, articles or doctoral thesis

publication lists, list of talks delivered to conferences/workshops, grants and funding, if any; name and contact of two referees and relation with the applicant; they will be contacted only for applicants admitted to the interview.

Candidates are admitted to the selection procedure with reserve.

At any time, even after participation in any tests, the Administration may, with justification, exclude them from the selection procedure. The concerned candidate will be notified of such exclusion.

#### ***Art. 4 - Comparative assessment of the candidates and the Evaluation Board***

The candidates will be assessed comparatively by an Evaluation Board appointed by the Board of the Structure, and formed by the following members:

Prof. Alberto Carrassi, Prof. Federico Porcu, Dott. Salvatore Pascale. Alternative Component Dott. Paolo Ruggieri

The selection procedure focuses on the examination of the selection criteria laid down in advance by the evaluation board, the candidates' scientific-professional curriculum containing also the scientific work and publications as well as an interview, aiming to verify the suitability of the candidate for carrying out the research programme.

During the interview, the Board will also verify the candidates' knowledge of the foreign language(s) English on relevant sectoral topics.

The list of candidates admitted to interview will be published on the site for calls, tenders and competitions <https://bandi.unibo.it/ricerca/assegni-ricerca> on (date) **Monday, May 22, 2023**

For information contact the phone number 051/2095305 (from 9 am CET to 12 am CET Europe/Brussels).

Preferably, send requests for administrative info to [difa.contratti@unibo.it](mailto:difa.contratti@unibo.it)

Assessment criteria: maximum total score 100 points (maximum 60 points allotted for qualifications, maximum 40 points for interview). Minimum qualifications score to access interview will be 50 points. Minimum evaluation points to be included in the ranking list will be 80 points.

**The interview will be held on Wednesday, May 31, 2023, time: 9:30 am CET Europe/Brussels online, using Microsoft Teams (the workstation from which candidates will take the test must be equipped with a webcam - essential for the recognition of the candidate - with microphone and headphones and / or speakers).**

**Candidates admitted to the interview will receive a personal notice of call, to the e-mail address indicated in the application, containing the necessary references to be able to complete the test.**

The interview is in public form, so as to ensure maximum participation.

At the end of the selection procedure, the Board will draw up a list of candidates with relative scores, , for a period of 12 months .

If two candidates receive the same scores, preference will be given to the younger candidate.

The Head of the Structure shall confirm in writing his/her approval of the list drawn up by the Board which will be published on <https://bandi.unibo.it/ricerca/assegni-ricerca>.

The list of candidates may be used to award other research contracts within the same research project, also of a lesser duration than that indicated in the call for applications and in any case no less than one year.

#### ***Art. 5 - Duration and amount of the contract***

The contract has a duration of **12 months** and may be renewed and/or extended in the terms laid down in the University Regulation concerning research fellowships, as issued by D.R. no. 416 of 19/04/2011.

The gross amount of the research fellowship contract is **€ 19.456,00** per annum. The amount is exempt of withholding tax and includes all statutory social security charges the Research Fellow is subject to.

The amount will be paid in deferred monthly payments.

The Research Fellow is provided with accident insurance, against payment of the required contribution which will be withheld from the first monthly instalment.

#### ***Art. 6 – Contract signature***

The winning candidate will be invited to sign a research contract with the Structure within Friday, June 30, 2023.

The non-acceptance within the deadline notified by the structure shall lead to the forfeiture of the right to sign the contract.

#### ***Art. 7 - Rights and Duties***

a) The contract is governed by the following regulations concerning leave: for obligatory maternity leave, the provisions laid down in the Decree of the Ministry of Labour and Social Welfare of 12 July 2007, published in the Official Journal no. 247 of 23 October 2007, and, for sick leave, article 1, paragraph 788, of Italian law no. 296 of 27 December 2006 and amendments.

b) The research activities are carried out under the supervision of the tutor, in a non-subordinate relationship with no fixed working hours. The research fellow shall personally carry out the required activities laid down in the Activity Programme without any substitution.

c) Research Fellows assigned to medical and clinical subject areas: the Research Fellow may carry out care activities exclusively for the purposes and needs of the research project, in the methods and limits laid down in the contract, or, in the case of activities carried out in healthcare structures, as laid down in specific agreements between the university and the health board.

d) The Research Fellow may spend a period of study abroad, in line with a programme agreed with the department and with expenses borne by the department, without prejudice to the possibility to obtain specific funding.

#### ***Art. 8 - Regulations concerning Intellectual Property***

Industrial Property rights over the results achieved by the Research Fellow in the execution of activities undertaken on behalf of the University, including but not limited to industrial inventions, models, drawings, plant varieties, as well as the intellectual and industrial property rights deriving from the production of software or databases (“Results”), belong exclusively to the University, which may freely use them also within agreements made by the departments with third parties, without prejudice to the moral rights of the Research Fellow who shall be acknowledged as the author or inventor.

The Research Fellow has the right to publish the Results of his/her research activities, provided that the publication does not prejudice the rights of the University over the protection of the Results.

The Research Fellow therefore undertakes to promptly notify the achievement of the results to the tutor, who shall verify the existence of any such prejudice.

In any case the Research Fellow undertakes to sign a specific Undertaking of Confidentiality with the referred Structure, which will be annexed to the contract.

#### ***Art. 9 - Non-accumulation, incompatibility, leave***

1. The position of research fellow is incompatible with the following positions:
  - a) fixed-term and full-time staff employed by the bodies listed in art. 22 para. 1 of Italian Law no. 240/2010;
  - b) persons employed by any private bodies, on a fixed term, permanent or part-time basis; For staff of any Public Administration other than those listed in letter a) refer to the provisions of point 2 below;
  - c) persons with fixed-term research contracts with any university;
  - d) adjunct professors with official teaching responsibilities in degree programmes or specialisation schools in any university;
  - e) persons enrolled in any first, second or single cycle degree programmes, PhD programmes with scholarships or specialisation school. Self-funded research contracts are compatible with enrolments in non-medical specialisation schools, for which no study grant or contract is foreseen or master's degree only where authorised in advance by the structure Director, and having sought the opinion of the tutor.
  - f) persons awarded research fellowships at any other body.
2. Employees of public administrations other than those listed in point a) with a fixed-term, permanent or part-time contract shall take unpaid leave of absence for the whole period of the research contract.
3. Freelance professional activities are compatible with the research fellowship contract where authorised in advance by the Board of the structure, with the motivated opinion of the tutor and having verified that the activities in addition to the research fellowship do not prejudice the regular execution of the contract.
4. The accumulation of the research fellowship contract with study grants awarded for any purpose is not permitted, with the exception of those granted by national or foreign institutions for the purposes of integrating the research activities with study periods abroad.
5. The above requirements must be possessed from the moment of entry into force of the contract. The winning candidate shall sign a specific affidavit undertaking to notify the department of any variations in the declared situations as soon as they occur.

#### ***Art. 10 – Forfeiture***

Any candidate who within the deadline notified by the structure does not sign the contract, unless for promptly and duly demonstrated reasons of health or force majeure, shall forfeit the right to sign the contract.

#### ***Art. 11 - Reference norms***

For any matters not laid down in this call for applications, refer to the Regulation on Research Fellows issued by the University of Bologna by Rectoral Decree no. 416 dated 19.04.2011 and other statutory regulations in force.

The personal data provided by the candidates in their applications, pursuant to General Data Protection Regulation- Regulation (EU) 2016/679, shall be processed for the purposes of managing the selection procedure and the contract.

Selection procedure manager Dott.ssa Maria Giovanna Piazza.

For information of an administrative nature on this announcement please contact Leonardo Fortunato, difa.contratti@unibo.it, 0512095305.

This call for applications will be published on the University Portal, the MIUR website and the European Mobility Portal.

Date, Tuesday, November 29, 2022

THE HEAD OF DEPARTMENT

Prof. ANDREA CIMATTI

Document signed with digital signature pursuant to Legislative Decree 7 March 2005, n. 82 and of the D.P.C.M. 22 February 2013 and subsequent amendments