

## NOTICE OF THE OPENING OF AN INTERNATIONAL CALL FOR RECRUITMENT OF ONE RESEARCH ASSISTANT

Ana Cristina Freire, Full Professor and Dean of the Faculty of Sciences of the University of Porto, hereby advertises the opening for 10 working days of an international call for recruitment on **one Research Assistant**, within the Project 101120085 – “BeyondTheEdge”, financed by European Union.

**1- Description of Project:** The aim of the project is to investigate the role of non-pairwise interactions between coupled dynamical systems, in the appearance of complex dynamics in network dynamical systems.

**2 - Main research field:** Mathematics.

**3 - Admission requirements:** Application can be submitted by any nationals, foreigners and stateless people that have completed a degree in Mathematics, or in a related field, of one of the following types:

- a Master degree (second cycle of higher studies in the European Union Bologna system);
- a Bachelor degree (undergraduate degree of 4 or more years in the pre-Bologna system);
- any degree legally considered equivalent to one of the above.

Completion of one of the required degrees must be achieved by October 1, 2024.

If the candidate holds a degree awarded by a foreign higher education institution, it must comply with the provisions established in the Decree-Law no. 66/2018 on July 16. All the formalities established in the Decree-Law must be met until the hiring.

Failure to comply with these requirements results in the preliminary rejection of the application.

**4 - Special admission requirements:**

- a) The candidate must have strong technical background in mathematics or physics;
- b) The candidate must have good English language skills (written and oral);
- c) The candidate must have interest in enrolling at an international doctoral program and;
- d) The candidate must not have completed a PhD degree at the time of the application to this call.
- e) Mobility requirement: The candidate must not have resided or carried out his/her main activity (e.g., work, studies) in Portugal for more than 12 months in the 3 years immediately before the recruitment date.

**5 – Conditions of award of the position:** After being selected, the candidate must be registered and attend the UC | UP PhD program in Mathematics (PIUDM), at the University of Porto, according to the following:

## REQUIREMENTS

[https://www.mat.uc.pt/phd\\_prog/requirements.php?edc=](https://www.mat.uc.pt/phd_prog/requirements.php?edc=)

“Candidates are required to have completed a degree in Mathematics, or in a related field, of one of the following types:

- a Master degree (second cycle of higher studies in the European Union Bologna system);
- a Bachelor degree (undergraduate degree of 4 or more years in the pre Bologna system);
- any degree legally considered equivalent to one of the above.

Applications from candidates that expect to satisfy the previous requirements before the fixed starting date of their doctoral studies within the program are welcome. If accepted, the admission will be conditioned to the completion of one of the required degrees. If the academic degree has been awarded by a foreign institution, its recognition/equivalence to a Portuguese degree might be necessary.

Exceptionally, candidates whose scientific, academic and professional curriculum demonstrates ability to pursue doctoral studies may also apply. It is up to the Steering Committee to evaluate whether these special conditions are met. For this purpose, instead of the certificates of qualifications, candidates should include a transcript (official listing of courses already completed and the corresponding grades).”

## DEADLINES

### *Applications for 2024/25*

For the 2024/2025 edition of the UC | UP PhD program in Mathematics (PIUDM), there will be 3 application calls. The first will be open between the 1st of March of 2024 and the 1st of April of 2024. The second call will be open between the 3rd of June of 2024 and the 15th of July of 2024, while the last call will be open between the 2nd of September of 2024 and the 13th of September of 2024.

Interested candidates can submit their application for the first call here:

<https://inforestudante.uc.pt/nonio/security/login.do>

**6 - Functions to be performed:**

- Develop scientific research with the research team of the University of Porto dedicated to the area of Coupled Dynamical Systems.
- Contribute to the development of the [BeyondTheEdge](#) project with a focus on the structure and dynamics of coupled cell hypernetworks systems.

**7 - Applicable laws and regulations:**

- Regulation No. 487/2020 of the Research, Science and Technology Staff of the University of Porto, published in the 2nd series of Diário da República on May 22, 2020.
- Labour Code, approved by Law no. 7/2009, of 12 February, in its current wording.

**8 - The place of work:** The functions will be developed at the Department of Mathematics of the Faculty of Sciences of the University of Porto and Centro de Matemática da Universidade do Porto, under the scientific guidance of Professor Ana Paula da Silva Dias and Professor Manuela Alexandrina David de Aguiar.

**9 - Planned secondment(s):** VUA (Vrije Universiteit Amsterdam) for possible collaboration with Professor Doutor Christian Bick and UNINA (Universita degli Studi di Napoli Federico II) for possible collaboration with Professor Doutor Mario di Bernardo.

**10 - Duration of contract:** Three years starting at beginning of October of 2024.

**11 - Remuneration:** The monthly remuneration to be attributed corresponds to the amount of € 1725,04 calculated based on the amount funded by the European Commission for the living allowance, on full time and working exclusively for the project.

In addition to the monthly remuneration, according to European Commission rules, the following allowances will also be awarded:

- Mobility allowance: € 490,60 /month
- Family allowance: € 404,75 /month (subject to family situation)

‘Family’ means persons linked to the researcher by marriage (or a relationship with equivalent status to a marriage recognised by the legislation of the country where this relationship was formalised) or dependent children who are actually being maintained by the researcher.

These amounts are gross amounts, subject to taxation according to Portuguese national law. Consequently, the net salary/net allowances result from deducting compulsory employee social security contributions as well as direct taxes (e.g. income tax) and any other applicable taxes/contributions.

## **12 - Methods of selection and definition of their weights/evolution criteria:**

### **Evaluation and selection process:**

The mandatory selection method is the evaluation of the scientific and curricular path.

- The use of selection methods is phased, as follows:

a) Application, at the first moment, to all the admitted candidates, of the evaluation of the scientific and curricular path.

b) Application of the second method, interview or presentation session or public demonstration, to part of the candidates approved in the previous method.

- Valuation of selection methods

1 — Each member of the jury evaluates the candidates' scientific and curricular path on a scale from 0 to 100 points, with valuation up to the hundredths, with the classification obtained through the weighting defined in the criteria to be evaluated.

2 — The evaluation of the second selection method is expressed on a scale from 0 to 100 points, with valuation up to the hundredths.

- Assessment of the scientific and curricular path obligatorily and optional interview with a maximum weighting of 10%.

### **Evaluation criteria:**

The evaluation of the scientific and curricular path will be made by each member of the jury, on a scale of 0 to 100 points, valued to the hundredths, for each of the evaluation criteria:

- A. Curricular analysis (90%): In this criterion there will be an evaluation of the candidate merit and his preparation and capacity to accomplish the scientific research plan, based on his curriculum vitae and his motivation letter.
- B. Scientific production (10%): In this criterion, an assessment will be made of the relevance and quality of the scientific works published by the candidate.

The final score of the evaluation of the scientific and curricular path (APCC), on a score of 0 – 100, will be obtained by the expression:

$$\text{APCC} = 0.9 * \text{A} + 0.1 * \text{B}$$

The evaluation process may optionally include an interview, presentation session or public demonstration, **to the 5 best positioned candidates** in the previous method, whose evaluation is also expressed on a scale of 0 to 100 points, valued to the hundredths. In this case, the final classification (CF) will include a weighting of 10% for the interview component (E), as follows:

$$\text{CF} = 0,9 * \text{APCC} + 0,1 * \text{E}$$

Only candidates with a rating of 70 points or higher are eligible for hiring.

### **13 - Evaluation Methodology**

13.1. After the admission of the applicants, and before starting the voting for their final ranking in the evaluation of their scientific and curricular background, each member of the Board presents a written document, to be attached to the meeting minutes, with the list of the applicants in descending order of merit, duly substantiated, considering the criteria and parameters of this tender notice.

13.2. The seriation methodology is indicated in article 29º of the Regulation No. 487/2020.

13.3. If an absolute majority of votes is not reached after the voting explained in the previous number, or in case of a tie, the Chair's vote will be used for the final ranking.

13.4.4. Each member of the Board must respect, in the various voting rounds, the order he or she presented in the document referred to in paragraph 13.1.

Minutes of the meetings of the jury are drawn up, containing a summary of what has taken place in the meetings, as well as the votes cast by each of the members and their reasons, which may be contained in autonomous documents attached to the minutes, being signed by all members of the Jury present.

The Board's final decision is approved by the head of the institution responsible for opening the tender notice. The final decision on hiring is the responsibility of the top manager of the hiring entity.

### **14 - Composition of the Selection Committee:**

**President:** Ana Paula da Silva Dias, Professora Associada com Agregação, Universidade do Porto.

**1st member:** Manuela Alexandrina David de Aguiar, Professora Associada com Agregação, Universidade do Porto.

**2nd member:** Christian Bick, Associate Professor, Vrije Universiteit Amsterdam, Holland.

**1st alternate member:** Pedro Soares, Professor Auxiliar Convidado, Universidade de Lisboa.

**2nd alternate member:** Alexandre Rodrigues, Professor Auxiliar, Universidade de Lisboa.

#### **15 - Results notifications:**

Lists of admitted and excluded candidates, as well as the final ranking lists, will be published and advertised on the webpage of this call at the Faculty of Sciences of the University of Porto, and all candidates will be notified by under the terms of the Code of Administrative Procedure.

**16 - Submission of applications:** The applications must be exclusively submitted through the web page of this opening ([https://sigarra.up.pt/fcup/pt/cnt\\_cand\\_geral.concursos\\_list](https://sigarra.up.pt/fcup/pt/cnt_cand_geral.concursos_list), n° 428, within **10 working days** after publication in DR, at the attention of the Selection Committee, and shall include the following documents:

- a) Application (**available in this opening SIGARRA, signed and current date**);
- b) Copy of the MSc diploma or certificate;
- c) Detailed *Curriculum vitae*;
- d) Motivation letter;
- e) Publication list;
- f) Names of at least two researchers who can provide an opinion on the candidate.

All candidates who submit their applications in an improper manner or fail to fulfil the requirements established in this call are excluded from admission. In case of doubt, the Selection Committee is entitled to request any candidate to present further documentation to support their statements. False statements provided by candidates are punishable by law.

Candidates who incorrectly formalize their candidacy are excluded from admission to the competition.

**17 - Final Decision:** Under the terms of article 121 of the Code of Administrative Procedure, after being notified, the candidates have 10 working days to pronounce. Within a maximum period of 90 days from the deadline for the submission of applications, the final decisions of the jury are given.

**18 -** The present insolvency proceeding is **exclusively intended to fill the vacancies indicated**, and may be terminated until the homologation of the final ordering list of the candidates and expiring with the respective occupation of the jobs on offer.

**19 - Non-discrimination and equal access policy:** FCUP actively promotes a policy of non-discrimination and equal access, so that no candidate can be privileged, beneficiary, disadvantaged or private of any right or exemption from any duty owing, in particular, to ancestry, age, sex, sexual orientation, marital status, family status, economic situation, education, social origin or condition, genetic heritage, reduced working capacity, disability, chronic illness, nationality, ethnic origin or race, territory of origin, language, religion, political or ideological beliefs and trade union membership. Under the terms of D.L. No. 29/2001, of February 3rd, the disabled candidate has preference in equal classification, which prevails over any other legal preference. Candidates must declare their respective degree of incapacity, the type of disability and the means of communication / expression to be used in the selection process, under the terms of the aforementioned diploma.

**20 – Notice for the selected candidate:** If the selected candidate for the job position obtained a higher education degree abroad, and in order to sign the employment contract and enroll in the Doctoral Programme, he/she might be required to deliver the academic transfers and degree certificates authenticated by consular offices or embassies of Portugal located in the country where the qualification was obtained, or hold the Hague Apostille, for countries that acceded to the Hague Convention. The same applies to the translations (mandatory) of documents whose original language is not Portuguese, Spanish, French or English.

If the degree has been awarded by a foreign higher education institution, it must comply with the provisions of the Decree-Law no. 66/2018, of August 16th, and any formalities established there must be fulfilled until the time of signing the contract.

**The application is open from 02/04/2024 to 15/04/2024.**