

NOTICE OF THE OPENNING 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**, with Master degree, resolutive term uncertain, within the Project PTDC/NAN-MAT/0098/2020 – “Electric Field Engineered Lattice Distortions for optoelectronic devices”, financed by Foundation for Science and Technology.

1.Main research field: Physics or Engineering Physics

2.Admission requirements: Application can be submitted by any nationals, foreigners and stateless people who meet the following conditions cumulatively: hold **a MSc degree** in the above-mentioned scientific area.

If the candidate holds a MSc 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.

Preferred requirements:

Preference will also be given to candidates with experience in experimental condensed matter physics, namely in: (i) experimental techniques for structural characterization of thin films, (ii) characterization of electrical, polar, magnetic and optical properties (iii) fundamental knowledge in the areas of crystallography, lattice dynamics, phase transitions, ferroelectricity and magnetism, in order to autonomously develop, with scientific and technical quality, the tasks that will be entrusted.

3.Functions to be performed:

Structural and morphological characterization of samples produced through X-ray diffraction, by Raman diffusion spectroscopy. - Characterization of physical properties by electrical polarization hysteresis cycles, electrical resistivity, pyroelectric currents, dielectric permittivity, piezoelectricity and magnetization as a function of temperature and applied electric field.

4. 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.

5. The place of work: The functions will be developed in the Department of Physics and Astronomy of the Faculty of Sciences of the University of Porto, under the scientific guidance of Rui Vilarinho Silva

6. Duration of contract: This employment contract is scheduled to start on **April 1, 2024** and will be maintained only for the period due to accomplish the tasks of the job description under a full-time regime.

7. Remuneration: €1.861,25€ (first position of Full-time Research Assistant category, with remuneration level 3, according to the 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).

8. Methods of selection and definition of their weights/evolution criteria:

The selection will be based on the evaluation of the candidates' scientific and academic career.

Grading system:

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, The three best 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.

Evaluation of the scientific and curricular path:

C1: Quality of CV (scale 0-100), where the following must be highlighted:

- Publications in international journals with scientific refereeing and citations (0-50);
- Participation and organization of conferences, seminars, advanced schools and previous projects (0-20);
- Academic career in bachelor's and master's degrees (0-30).

C2: Adequacy to the required profile (scale 0-100).

C3: Previous experience in materials research and in the area of physical properties characterization (scale 0-100).

The final score of the curricular evaluation and scientific path (AC) will be obtained by the expression:

$$AC = 0.4 * C1 + 0.3 * C2 + 0.3 * C3$$

The **three best candidates**, according to the score in the curriculum criteria (ACPS) will be called for an interview with the selection panel, which can take place via videoconference if the candidate so requests. The interview score (IS) will be expressed on the scale 0 – 100.

The final score (FS) of candidates admitted for the interview will be determined according to the expression:

$$FS = 0.9 * ACPS + 0.1 * IS$$

9. Evaluation Methodology

9.1. 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.

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

9.3. 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.

9.4. 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 9.1.

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.

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

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.

10. Composition of the Selection Committee:

President: Rui Miguel Abreu Vilarinho da Silva, Research, FCUP;

1st member: Joaquim Agostinho Gomes Moreira, Associate Professor, FCUP;

2nd member: José Pedro Bastos da Silva, Research, UMinho;

1st alternate member: Pedro Manuel de Melo Bandeira Tavares, Associate Professor, UTAD;

2nd alternate member: Bernardo Gonçalves Almeida, Associate Professor, UMinho.

11. 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.

12. 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, n° 424, 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) Brief description of the most relevant scientific activities for the last 5 years;
- f) Other documents deemed important by the candidate for the evaluation.

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.

13.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.

14.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.

15.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.

The application is open from 08/03/2024 to 21/03/2024.