

## **ANNOUNCEMENT FOR THE AWARD OF A RESEARCH FELLOWSHIP**

### **BI Research Fellowship, Master; 1 vacancy**

A call for applications is now open for the attribution of one research grant of BI-Master within the scope of the R&D project “E-FIELD-Electric-Field Engineered Lattice Distortions for optoelectronic devices”, with reference PTDC/NAN-MAT/0098/2020, financed by Fundação para a Ciência e a Tecnologia (FCT, IP) in its OE component under the following conditions:

**Scientific Area:** Physics

**Recipient category:** Non-conferring degrees course students

#### **Requirement for granting the fellowship:**

- The applicants may apply without prior registration in the course for which the fellowship is open. The requirement to enroll in a non-academic degree course will be verified on the date of contracting the fellowship;
- Only fellowships whose selected applicants present a valid proof of enrollment in a non-academic degree course will be contracted, according to the type of the fellowship, issued by the academic services of the Higher Education Institution, indicating, respectively, the academic year or its duration (star and term).
- Enrollment in non-certified courses (without curricular units) will not be considered as proof of enrollment.

**Candidates profile:** candidates must have, at the time of application, a Master's degree in one of the areas: Physics, Physical Engineering, or related areas.

**Applicants eligibility:** Applicants must comply with the eligibility conditions laid down in article 9 of the Research Grants Regulation of the Portuguese Foundation for Science and Technology (2019).

**Workplan and objectives to be achieved:** The work plan involves the preparation of thin films of strongly correlated perovskites, oxides with high magnetostriction and dielectric oxides, by laser ablation, as well as their structural, microstructural, chemical, electrochemical, dielectric and magnetic characterization. The objective is to take advantage of the combination of different materials, the epitaxial deformation at the interfaces between them and their mechanical interaction with selected substrates, in order to obtain films with coupled magnetic/electrical properties, controllable by an applied external electric field.

**Applicable legislation and regulations:** Research Fellowship Holder Statutes, approved by Law no. 40/2004 of August 18, in its current version published by Decree-Law no. 123/2019 of August 28; Regulation of Scientific Research Fellowships of the University of Minho (RBIC), published in “Diário da República”, 2nd serie, no. 119, through dispatch no. 6524/2020 of 22-06-2020, ratified by ratification declaration no. 447/2021 of 22-06-2021 and Regulation of Research Studentships and Fellowships (RBI) of the Foundation for Science and Technology, I.P. - in force.

**Host/Contracting institution and scientific supervision:** The workplan will be carried out in the Centro de Física das Universidades do Minho e Porto, located in the Gualtar Campus, University of Minho, in Braga, under the scientific supervision of the Professor Bernardo Almeida.

**Fellowship duration:** The grant will take place for a period of 12 months, with a provisional starting date on the February of 2022. The scholarship contract is non-renewable.

**Amount of the research grant:** The value stipend (Monthly Maintenance Allowance) is 1104,64 euros per month, in accordance with the stipends values published by the Foundation for Science and Technology (FCT I.P.) in the country (Annex I – Monthly Stipends Values for the maintenance allowances of the FCT Regulation for Research Studentships and Fellowships) and Annex II of the Regulation of Scientific Research Fellowships of the University of Minho (RBIC), published in “Diário da República”, 2nd serie, no. 119, through dispatch no. 6524/2020 of 22-06-2020, ratified by ratification declaration no. 447/2021 of 22-06-2021, according to the applicable regulation.

Payment is made on the 23st of each month, through bank transfer to the Bank Identification Number of the fellow identified in the contractualization process.

**Other benefits:** Reimbursement of Voluntary Social Security (Social Security contributions), corresponding to the 1st level of discounts and personal accident insurance.

**Exclusivity regime:** The grantee will perform the activities under exclusivity, as foreseen in article 5° of the Research Fellow Statutes and applicable regulations.

**Selection panel:**

*President:* Bernardo Gonçalves Almeida, Assistant Professor with Aggregation, Department of Physics, School of Sciences, University of Minho

*Effective members:* José Pedro Basto da Silva, Junior Researcher, Center of Physics, School of Sciences, University of Minho and Luís Manuel Gomes Vieira, Assistant Professor, Department of Physics, School of Sciences, University of Minho;

*Substitute members:* Etelvina de Matos Gomes, Associate Professor with Aggregation, Department of Physics, School of Sciences, University of Minho and Luís Silvino Alves Marques, Assistant Professor, Department of Physics, School of Sciences, University of Minho

The first effective member will substitute the President of the selection panel in case of impediment, being nominate the first substitute member in the place of the first effective member.

**Criteria and procedures for applications assessment and selection:** The evaluation of the applications will focus on the candidate's Merit, according to the following criteria and sub-criteria and corresponding weights, on a scale from 0 to 100:

A. Candidate curriculum assessment (CA):

A.1 Education: Master in Physics or Master in Physics Engineering - 30 points; master's degree in related areas – 20 points; Master in other areas – 0 points.

A.2 Master's final average: up to 14 points – 5 points; greater than 14 values – 10 points)

A.3 Scientific production: up to 20 points

B. Research experience in the field of study (RE)

Research experience in the field of study will be evaluated based on the training and work carried out, in comparison with the planned work plan, namely the theme of the master's thesis, the synthesis and characterization techniques used, the results of any work presentations in monographs, conferences or scientific articles. Evaluated with up to 30 points.

C. Motivation letter (ML), rated up to 10 points.

The final classification(CF) of the applicant's merit with the achieved through the following formula:

$$\mathbf{CF= CA + RE + ML}$$

The academic degrees and diplomas documents, or their respective recognition when awarded by foreign higher education institutions are not mandatory in the application phase, being replaced by a declaration of honor of the candidate with the contents of academic results. The documents of academic qualification or respective recognition will be required in the contracting phase and must attest facts that occurred on a date prior to the application. In situations of divergence between the information contained in the declaration and the documentation submitted for contracting the grant, only the information contained in the latter will be consider. If the documents proving the ownership of the academic degree and diploma, or the respective recognition under the terms of Decree-Law No. 66/2018, of August 16, do not correspond to the classifications awarded in the evaluation of the academic path, which can change the candidate's ranking, the fellowship won't be contracted.

***Notes:** Applicants with degrees obtained abroad must present proof of recognition of qualifications in Portugal and conversion of the final classification obtained in them to the Portuguese classification scale or declaration under the terms indicated in the previous point. Candidates who do not comply with one of these provisions, the selection panel will assign "0" in the grade of the graduation and/or master course. Candidates will be evaluated on the remaining parameters.*

**Disclosure of results:** The provisional results of applications, based in the selection panel minutes, will be send to the applicants by email until 90 working days from the applications deadline.

If case of unfavourable results, the candidates have a period of 10 working days to comment, if desired, in a prior hearing to interested parties, pursuant to articles 121 and 122 of the Code of Administrative Procedure (DL no. 4 / 2015 of January 7th).

**Complaint and appeal procedures:** The final results of the evaluation will be published through an ordered list by final grade obtained, posted in a visible and public place of the host unit, as well as by email to all applicants, enclosing for that purpose, the minutes of the jury deliberations.

The selected candidate must inform its willingness to accept the grant, in writing. In case of rejection, the fellowship will be awarded to the next candidate in the ordered list of applicants.

The final decision can be contested within 15 working days, by sending to the President of the jury the corresponding claim. Interested parties may also submit an optional hierarchical appeal, addressed to the Pro-Rector for Research and Projects, Professor Filipe Vaz.

**Constitution of a selection reserve list:** The applicants ranked in the next positions on the ordered list will be included in a selection reserve list, which can be used until 31/12/2021.

**Application deadline and submission:** The call for applications is open for 10 working days, after the publication of the announcement in the on the Euraxess portal

Applications must be formalized by sending an application letter with the following documents: curriculum vitae; qualifications certificate or declaration of the applicant; motivation letter; statement proving that meets the conditions for the grant typology, according to the application requirements; other documents important to the evaluation process).

Applications must be sent by email to [bernardo@fisica.uminho.pt](mailto:bernardo@fisica.uminho.pt) and [bolsas@ecum.uminho.pt](mailto:bolsas@ecum.uminho.pt) , indicating 018/ECUM/CFUM/2021- E-FIELD in Subject. Applications submitted by other means will not be accepted.

**Fellowship contractualization:** The fellowship will be attributed by signing a fellowship contract between the University of Minho and the fellow, accordingly with the contract minute (annex IV of the Regulation of Research Fellowships of the University of Minho (RBIC), published in *Diário da República, 2nd Série, no. 119*, through dispatch no. 6524/2020 of 22-06-2020, ratified by ratification declaration no. 447/2021 of 22-06-2021, as indicated in 2.4 of the FCT document: “Rules for Granting and Management of Grants within the scope of R&D projects, including infrastructure projects, the multi-annual financing program for R&D units and other FCT financing instruments (Version 2021)”.

The contract may only be concluded after all the documentation required is collected, which must take place within a maximum period of 6 months including evidences of the academic degrees or diplomas and enrolment in non-conferring courses.

Once all the documentation has been received, the contracting entity has a period of 60 working days to conclude the scholarship contract. Once received, the fellow must return the contract duly signed within 15 working days.

The activities under the fellowship contract can only began after proper authorization by the contracting entity.

**Term and cancellation of fellowship contracts:** Without prejudice to the other causes provided the fellowship regulations (FCT and UMinho) and in the Statute of the Research Fellow, the fellowship ends with the completion of the work plan, as well as with the expiration date for which it was granted or renewed.

At the end of the fellowship, the grantee is obliged to present a Final Report of the work carried out, in accordance with the objectives and evaluation criteria defined with the scientific advisor, within 30 days after the end of the scholarship.

The **final report** must be prepared in accordance with Annex I of the Scientific Research Fellowships Regulation of the University of Minho (RBIC), published in *Diário da República, 2nd Série, no. 119*, through dispatch no. 6524/2020 of 22-06-2020, ratified by ratification declaration no. 447/2021 of 22-06-2021.