

## 2 RESEARCH FELLOWSHIPS FOR MASTER'S STUDENTS

Applications are invited for two research fellowships for Master's students, at the Portucalense Infante D. Henrique University (UPT), within the framework of the "Twin NavAux - *Promoción del uso del gemelo digital en la industria auxiliar naval de Galicia – Norte de Portugal*" project, ref 0070\_TWIN\_NAV\_AUX\_1\_E, funded by Interreg Spain-Portugal program (POCTEP) under the following terms:

**Scientific area:** Data Science

### Admission requirements

The applicants must be enrolled in a Master's programme within the scientific area mentioned above or a related area (to be proven at the contract stage).

### Applicant eligibility

The applicants must comply with the eligibility criteria set out in Article 9 of the Regulation for Research Grants of the Portuguese Foundation for Science and Technology.

### Work plan

The Twin NavAux project is carried out by the R&D Unit No 5105 - Research in Economics, Management and Information Technologies (REMIT) team and aims at establishing the technological and training conditions (IDI, human and business) necessary to promote the widespread implementation of digital gem models of products in the naval auxiliary sector in the Galician-Northern Portugal cooperation area. Thus, the research fellows will join the project team and contribute to the following activities:

1. Identification of precise technological capabilities
2. Training of the sector in the transition to the digital twin model
3. Digital Twin Implementation Roadmap
4. Design and start-up of product digital twin pilots in auxiliary naval companies
5. Management and coordination

## 6. Visibility, Transparency & Communication

### **Applicable legislation and regulation**

Law No 40/2004 of 18 August, in its current wording - Research Fellow Statute (EBI) and the Regulation in force for Research Studentships and Fellowships (RBI) of the Portuguese Foundation for Science and Technology (FCT):

<https://www.fct.pt/en/financiamento/programas-de-financiamento/bolsas>.

### **Workplace**

The research fellow will be working at the premises of UPT, under the scientific supervision of Prof. Fátima Manuela da Silva Leal.

### **Fellowship duration**

This fellowship post will be offered on a 6-month contract, possibly renewed but not exceeding the project duration, predictably starting in January 2024, and carried out on an exclusive basis.

The fellowship cannot be granted, according to Article 6, paragraph 3, of the FCT RBI, if the timescale required for the contract procedure does not allow a minimum 3-consecutive month contract. Contract renewal, if any, will comply with Article 6 of the FCT RBI.

### **Stipend**

Monthly stipend amount of €930,98, in accordance with FCT stipend values for studentships and fellowships, carried out in Portugal (<https://www.fct.pt/en/financiamento/programas-de-financiamento/bolsas>). The payments are made by UPT via bank transfer.

The fellowship will also cover the voluntary social insurance payments, corresponding to the class 1 rate (if the fellowship contract duration is equal to or greater than 6 months) provided that the candidate chooses this regime, as well as personal accident insurance.

### **Selection procedure**

The selection methods will consist of a Curricular Assessment (AC) and an interview (ES).

The **Curricular Assessment (AC)** compasses the aspects mentioned below, scored on a scale from 0 to 20 points, and is calculated as follows:

$$AC = AC1 * 0,4 + AC2 * 0,2 + AC3 * 0,2 + AC4 * 0,2$$

**AC1** – Enrollment in a Master's programme: in data science - 20 points; in related scientific areas - 10 points); in other areas - 0 points.

**AC2** – Knowledge of machine learning algorithms.

**AC3** – Experience in Python programming language.

**AC4** – Experience in conducting exploratory data analysis.

The three top-scoring applicants in the curricular assessment will be invited for an **interview (ES)**, to take place remotely or in person, provided that the AC scores are higher than 14 points. The interview is aimed at evaluating the applicant according to the criteria below and is calculated as follows:

$$ES = ES1 * 0,5 + ES2 * 0,25 + ES3 * 0,25$$

**ES1** – Knowledge and motivation to pursue the work plan

High level of knowledge and motivation - from 16 to 20 points

Adequate level of knowledge and motivation - from 10 to 15 points

Lack or insufficient level of knowledge or motivation - from 0 to 9 points

**ES2** – Soft skills (time management, problem-solving, critical thinking, teamwork, proactivity)

Highly proficient – from 16 to 20 points

Competent - from 10 to 15 points

Insufficient proficiency - from 0 to 9 points

**ES3** – Communication skills and proficiency in English:

Highly proficient – from 16 to 20 points

Competent - from 10 to 15 points

Insufficient proficiency - from 0 to 9 points

The **Final Score (AF)** is given by the weighted average of the classification obtained in each of the selection methods, with the Curriculum Assessment (AC) having a weight of 70% and the Interview (ES) of 30%. If the minimum score of 14 points is not achieved by any of the applicants, the fellowship will not be awarded.

### **Selection panel composition**

The selection panel is composed of the following Professors at UPT:

Chair of the panel — Professor António Jorge da Costa Leite

Panel member — Professor Fátima Manuela da Silva Leal

Panel member — Professor Sónia Cristina Rolland de Lima Sobral

Deputy member — Professor Luís Miguel da Mata Artur Dias Pacheco

Deputy member — Professor Fernando Joaquim Lopes Moreira

### **Notification of results**

The applicants will receive notification of the evaluation results by email, at the email address provided in the application submission, within a maximum of 90 working days, by Article 12 of the FCT RBI. This notification will include, in addition to the applicant ranking list, the minutes of the selection panel meetings. If the selected candidate withdraws, the fellowship will be granted to the next highest-scoring applicant on the ranking list, provided that the minimum required score is attained.

### **Deadlines and procedures for pre-hearing, complaint, and appeal**

After notification of the provisional evaluation results, applicants have a 10-working day pre-hearing period to argue against, pursuant to Article 121 et seq. of the Portuguese Code of Administrative Procedure. After the selection panel examines the cases presented in the pre-hearing of interested parties, the applicants will be notified of the final decision. In case of disagreement with the final decision, the applicants may lodge a complaint within 15 working days from the final decision notification or an appeal to the UPT Rectory within 30 working days from said notification.

### **Deadline and application submission**

The call is open from **05/01/2024 to 19/01/2024** (until 11.59 pm, Lisbon time).

The applicant must submit the application by email to [gai@upt.pt](mailto:gai@upt.pt), adding the call reference **20239.REMIT.BI** to the email subject line and attaching the following documents in Portable Document Format (.pdf):

- Motivation letter;

- Evidence of the applicant's enrollment in a Master's programme;
- Detailed curriculum vitae;
- Any other documents deemed relevant by the applicant.

### **Privacy Policy**

UPT is the data Controller regarding all personal data processing carried out in this selection procedure, under Regulation (EU) 2016/679 (General Regulation on Data Protection).

The personal data processed within the scope of this call is only intended for the aforementioned selection process and will be used by UPT to assess eligibility for the applied role in accordance with the applicable legal requirements and the procedure's selection criteria. The applicant's refusal to consent to the personal data processing will prevent UPT from verifying whether the application meets the minimum requirements and, therefore, will render the application invalid.

The personal data can legitimately be transmitted to third parties whenever necessary to fulfill UPT's legal obligations and comply with the funding scheme requirements regarding this procedure.

The data will be retained for a legally defined period of five years.

The Data Subject has the right to object to the data collection and processing, as well as to verify, update, rectify, erase, or limit the use of the collected data. The exercise of these rights is excluded when personal data is used to safeguard the public interest, namely in cases of detection and prevention of criminal offenses, or when subject to professional secrecy.

The Data Subject has also the right to access and data portability.

In order to exercise such rights, the Data Subject shall contact UPT via the e-mail address [rgpd@up.pt](mailto:rgpd@up.pt).

In all instances, the Data Subject has the right to contact and lodge a complaint to the National Data Protection Commission.

### **Non-discrimination and equal access policy**

UPT is actively committed to promoting a non-discrimination and equal access policy, wherefore no applicant can be privileged, benefited, impaired, or deprived of any rights whatsoever, or be exempted from any duties based on their ancestry, age, sex, sexual orientation, marital status, family and economic conditions, education, origin or social status, genetic heritage, reduced work capacity, disability,

chronicle illness, nationality, ethnic origin or race, national origin, language, religion, political or ideological belief and union affiliation.

### **Contacts**

Any inquiries related to this call can be addressed to [gai@upt.pt](mailto:gai@upt.pt).

### **Additional information**

This call opening notice is available on the UPT [website](#) and on the EURAXESS portal in both Portuguese and English version. In the case of conflicting meanings between the two language versions, the Portuguese version prevails.

The templates of the fellowship contract and fellowship final report, including evaluation criteria, are available on the UPT website.