

# Notice of the Call

## Call for AIR Centre PhD Scholarships Programme – 2023

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January 2023

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### Call for AIR Centre PhD Scholarships Programme 2023

Atlantic International Research Centre (AIR Centre) opens a Call for **4 (four)** PhD grants in the area of Marine Robotics complying with the provisions of the [FCT Regulation for Research Studentships and Fellowships](#) (RBI) and [the Research Fellowship Holder Statute](#) (EBI):

- 1) Optimal trajectory planning and execution control for long-range Autonomous Surface Vehicles
- 2) Team-based planning and execution control for multi-domain autonomous vehicles
- 3) Models of computation for systems of teamed maritime vehicles
- 4) Adaptive Ocean Sampling and Mapping using Networked Marine Robots (surface and underwater vehicles)

The grants will be financed by the Foundation for Science and Technology (FCT) under the Collaboration Protocol signed between the FCT and the AIR Centre.

#### 1. APPLICATION

The call is open from **January 30<sup>th</sup> to March 19<sup>th</sup> 2023 (23:59 Lisbon Time)**

Applications, and all the supporting documents described in the RBI and in this Notice of the Call, must be submitted online using the appropriate application form available at <https://www.aircentre.org/Scholarship/>. Applications submitted by other means will not be accepted.

All the application procedures, including submission, evaluation, results communication, preliminary hearings, are performed online.

Each applicant may submit one application only, under penalty of cancellation of all applications submitted.

Providing false declarations or committing acts of plagiarism by applicants leads to the exclusion of the application without prejudice of taking other corrective and punitive disciplinary measures.

#### 2. TYPE AND DURATION OF STUDENTSHIPS

Aiming to support advanced training, PhD studentships will be granted to applicants that fulfil the requirements to join a study cycle that allows to obtain a PhD degree and that wish to develop research work that allows obtaining that degree.

The research work may be carried out in any environment of production and dissemination of knowledge, national or international, including higher education institutions, R&D units, Associated Laboratories, Collaborative Laboratories, Interface Centers, State Laboratories and other public research institutions, other Public Administration entities or private non-profit institutions developing R&D activities, companies acknowledged for their scientific and technology interest or consortia that includes any of the mentioned institutions.

The work plan must be developed entirely or partially in a national institution (studentship in Portugal or both in Portugal and abroad, respectively)

As a rule, the duration of PhD studentships is annual, renewable up to the maximum number of months requested upon application and cannot be granted for a period less than 3 consecutive months neither more than 48 months.

In case of a studentship carried out both in Portugal and abroad, the work plan period in a foreign institution cannot exceed 24 months.

### 3. RECIPIENTS

AIR Centre PhD grants are aimed at applicants enrolled or that comply with the requirements to enroll for PhD related studies and who wish to carry out research towards this degree.

### 4. ADMISSIBILITY

#### 4.1 Applicants' admissibility requirements

The following citizens may apply to this call:

- National citizens or citizens from other member-states of the European Union;
- Third-party states citizens;
- Stateless individuals;
- Citizens holding a political refugee status.

To apply for a PhD studentship, it is necessary:

- To be a citizen permanently and usually living in Portugal, in case the work plan of the requested studentship proceeds, partially, in foreign institutions (in case of both in Portugal and abroad studentships); this requirement is applicable to both national and foreign citizens;
- Not to have benefited from a PhD or a PhD in industry studentship directly funded by FCT, regardless of its duration.
- Not hold a PhD

#### 4.2 Application's admissibility requirements

It is mandatory to submit the following documents, under penalty of non-admissibility:

- a) Your personal identification (ID card, passport)
- b) An updated version of your **Curriculum Vitae** (CV)
- c) **Academic degree certificates**, indicating the final grade and ECTS and, if possible, the final classification of the disciplines completed.;
- d) **Motivation letter**, explaining the reasons for your application, presenting your academic/professional career path and how it is related to the work plan; in case of also presenting the document or achievement considered the most representative, applicants should also explain this option in the motivation letter;
- e) **Two (2) different recommendation letters**, signed by the respective issuer; these letters should include the academic and/or professional context relationship of the candidate with its referee and should also specify that are related with this call; supervising acceptance letters should not be used as recommendation letters; as an example, recommendation letters may refer to the applicant's maturity and career path adequacy related to the proposed work plan;

#### 5. RESEARCH WORK PLAN AND SCIENTIFIC ORIENTATION OF THE STUDENTSHIP

More more detailed work plans will be prepared by the selected candidates together with the supervisors These work plans will be approved and will be part of the application to the doctoral program of the degree-granting university.

#### 6. EVALUATION CRITERIA

All admitted applications must be graded from zero (0.00, minimum) to five (5.00, maximum) in **Criterion A – Merit of the Applicant**.

To decide the conditional granting of the PhD grant, applicants will be ranked according to final score in Criterion A:

$$\textit{Final grade (FG)} = (100\% \times A)$$

Grades in any of the evaluation criteria shall be awarded with two decimal digits. Values resulting from the application of formulas shall be rounded to the two decimal digits using the following rule: when the third decimal digit is equal to or greater than 5 (five) it shall be rounded in excess; if lesser, the value of the third decimal digit shall be upheld.

Individual interviews with best ranked candidates may also be considered, aiming at clarifications and explanations about the curricular elements and other additional information, as well as assessing the candidate's profile and motivation. In this case, the *Final evaluation* of the interviewed candidates will be calculated applying the

following formula:  $0,75 \times \text{Final grade (FG)} + 0,25 \times \text{Interview}$ , that must be graded from 0 (minimum) to 5 (maximum). In the absence of an interview, the *Final evaluation* will be equal to the *Final grade (FG)*.

Applicants whose **application is scored with a final grade lower than 3.75 will not be recommended** for scholarship granting.

### 6.1 Criterion A – Merit of the Applicant

The criterion A, Merit of the Applicant, is evaluated based on two sub-criteria:

- A1. **Personal curriculum** (reflecting the academic, scientific and professional career), with a relative weight of **80%** in the Merit of the Applicant;
- A2. **Motivation and recommendation letters**, with a relative weight of **20%** in the Merit of the Applicant.

The score awarded to criterion A is calculated applying the following formula:

$$\text{Criterion A} = (0,8 \times A1) + (0,2 \times A2)$$

For tiebreaking purposes, the final ranking list will be based on the scores assigned to each of the evaluation sub-criteria in the following order: sub-criterion A1 (Personal curriculum), sub-criterion A2 (Motivation)

#### 6.1.1 Sub-criterion A1 – Personal Curriculum

The assessment of applicants' personal curriculum which as 80% relative weight in the Criterion A should be performed in a holistic way, from a global vision of the merit of their academic, scientific and professional career. considering various dimensions of the curriculum that can demonstrate the relevance for the PhD thesis

The panel should also evaluate the quality of the document and the way in which the results achieved by the candidate are presented as being the most representative and relevant of his/her professional and scientific career. The candidate may also submit, along with his/her application, up to 3 documents that are most representative of his/her academic, scientific, or professional work, relevant to the objectives of the PhD thesis (e.g., dissertations or theses, scientific articles or other publications may be considered representative documents)

The grade scored to this sub-criterion should therefore translate a global and integrated view of applicant's personal curriculum and should be described in a clear, consisted, and detailed manner.

The following sub-criteria must be considered to obtain the final classification for Sub-criterion A1:

**Sub-criterion A1.1** -assesses the training area of the candidate, with a weight of 60% in the evaluation of sub- criterion A1;

**Sub-criterion A1.2** - evaluates the Scientific and Technological, Cultural or Artistic production and applied research activities, or practice-based, as well as extension and knowledge dissemination activities, with a weight of 40% in the evaluation of sub-criterion A1;

The final classification of sub-criterion A1 is obtained by the following equation:

$$\text{Sub-criterion A1} = 0.6 \times \text{A1.1} + 0.4 \times \text{A1.2}$$

### 6.1.2 Sub-criterion A2 – Motivation letter and recommendation letters

The classification of this sub-criterion which as 20% relative weight in the Criterion A should consider the clear identification of applicant's motivation to submit the application and the maturity to develop the proposed scientific work plan. In case the applicant submits her/his most representative document, the panel should analyze applicant's explanation for her/his choice. The applicant must also demonstrate knowledge of the scholarship program in question, its goal, and the purpose of the subject area being applied for.

Recommendation letters (documents of mandatory submission) should also be considered.

The classification in sub-criterion A2 is obtained as follows: well-written motivation letter (in English), objective, clear and well framed in the objectives of the application, including the candidate's motivation for the subject under study and identification of its importance for his/her career, clear recommendation letters (written in English) from reputable personalities with a past working relationship with the candidate and in a good position to issue the recommendation.

### 6.1.4 Disability Bonuses

Applicants that state a degree of disability equal to or above 90% shall have a bonus of 20% on criterion A – Merit of the Applicant. Applicants that state a degree of disability equal to or above 60% and under 90%, shall have a bonus of 10% in this criterion. The degree of disability **should be duly proven** by submitting, in the application form, the document *Atestado de Incapacidade Multiuso*, issued according to the Decree-Law no. 202/96, of 23 of October, in its current version.

## 7. EVALUATION

The evaluation panel is composed by the following members

Phd gran 1) 2) and 3):

- António Pascoal | Instituto Superior Técnico (coordenador)

- Paulo Relvas | Universidade do Algarve
- Javier Gilbert | Universidad Politécnica de Cartagena
- Maria do Rosário Pinho | Universidade do Porto (alternate)
- Maria Margarida Amorim Ferreira | Universidade do Porto (alternate)

Phd Grant 4):

- José Alberto Victor (IST, University of Lisboa, Portugal) (coordenador)
- Giovanni Indiveri (University of Genova, Italy)
- Lionel Lapierre (The Montpellier Laboratory of Computer Science, Robotics, and Microelectronics, University of Montpellier, France)
- David Salinas, UNED (alternate)
- Vahid Hassani, Oslo Metropolitan University (alternate)

The jury will analyze applications considering the above evaluation criteria. Individual interviews with best ranked candidates may also be considered, aiming at clarifications and explanations about the curricular elements and other additional information, as well as assessing the candidate's profile and motivation. In this case, the *Final evaluation* of the interviewed candidates will be calculated applying the following formula:  $0,75 \times \text{Final grade (FG)} + 0,25 \times \text{Interview}$ , that must be graded from 0 (minimum) to 5 (maximum). In the absence of an interview, the *Final evaluation* will be equal to the *Final grade (FG)*.

All members of the jury, including the chair, are committed to several responsibilities essential to the evaluation process, such as the duties of impartiality, the declaration of any potential conflict of interest (COI) and confidentiality. At all times during the evaluation process, confidentiality is fully protected and ensured to guarantee the independence of all opinions produced.

Members of the jury, including the chair, may not be supervisors or co-supervisors to candidates with applications submitted to the call.

For each application, a final evaluation sheet will be produced by the jury, where there are clearly, coherently, and consistently presented the arguments that led to the classifications attributed to each of the evaluation criteria and sub criteria, explaining also, if appropriate, any bonuses awarded.

The evaluation meetings will be virtual, and the reports produced shall be of the responsibility of all the jury members.

The reports and their annexes must include the following information:

- Name and affiliation of all members of the jury;
- Identification of all excluded applications and respective justification, if applicable;
- Methodology adopted for cases considered particular, if applicable;
- Final Evaluation Sheets for each candidate;
- Provisional ranking list and ranking in descending order of all applications evaluated by the panel;
- COI statements from all members of the jury;
- Any delegation of vote and powers by reason of justified absence, if applicable.

## 8. RESULTS DISCLOSURE

Evaluation results will be communicated to the email address provided by de candidates in the application form, in AIR Centre website.

## 9. DEADLINES AND PROCEDURES FOR PRELIMINARY HEARING, CLAIMS AND APPEALS

Once the provisional ranked list of the evaluation results has been communicated, applicants who have an unfavourable provisional decision may use their right to dispute it during the preliminary hearing phase, which takes place within 10 working days, according to Articles no. 121 and the following of the [Administrative Procedure Code \(CPA\)](#).

The final decision will be disclosed after the analysis of applicants' arguments presented in the preliminary hearing. Final decision can be claimed within 15 working days or, alternatively, appealed within 30 working days, after the communication of the final results, respectively. The AIR Centre team shall receive the applicants' complaints and appeals and remit them to the Fundação para a Ciência e Tecnologia I.P., accompanied by its assessment. The complaints and appeals must be addressed to FCT's Administration board.

## 10. STARTING DATE OF THE PHD STUDENTSHIP

The studentships will start at the 1<sup>st</sup> day of the month indicated by the applicant during the granting procedure, that must occur within six months of the date of notification of the approval decision.

## 11. REQUIREMENTS FOR STUDENTSHIP GRANTING

The research scholarships contracts will be dealt directly with the FCT.

The following documents are of mandatory submission, upon conditional granting of the studentship for purposes of contracting thereof:

- a) Copy of the documents of personal identification, tax number and, if applicable, social security<sup>1</sup>;
- b) Copy of the academic degree certificates.
- c) Work Plan
- d) Document proving the acceptance and registration in the 3rd study cycle from the educational offer in the higher education institution that will grant the academic degree;
- e) Supervisor(s) statement declaring to coordinate the work plan, as established in Article no. 5-A of the Statute for Research Fellowships (template will be made available by FCT);
- f) Institutional document supporting the applicant, issued by the institution(s) where the work plan will be

carried out, guaranteeing the necessary conditions to its successful development, as well as the fulfilment of the duties established in Article no. 13 of the Research Fellowship Holder Statute (template will be made available by FCT);

g) Updated document proving the exclusivity dedication regime (template will be made available by FCT).

The studentship granting is still dependent on:

- The fulfilment of all the requirements listed in this Notice of the Call;
- The results of scientific evaluation;
- The absence of unjustified non-compliance of the fellowship holder during previous directly or indirectly FCT funded fellowships;
- FCT available budget.

The lack of any of the necessary documents to complete the contracting procedure implies the expiration of the studentship granting and conclusion of the process; applicants have up to 6 months after the disclosure of the provisional granting to present all of the listed documents.

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<sup>1</sup> The presentation of these documents may optionally be substituted by the in-person presentation in the funding agency, which will keep all the elements needed for the validation and execution of the contract, including the numbers of personal identification, taxation and social security, as well as the respective dates of expiry.

## 12. FUNDING

Studentships payment will start after the signed contract is returned to FCT, which should happen within the 15 working days after its delivery.

The studentships granted in this call will be financed by FCT using the State Budget fund and, whenever eligible, using the European Social Fund (ESF), under the PORTUGAL2020 programme, in particular, under *Programa Operacional Regional do Norte (NORTE 2020)*, *Programa Operacional Regional do Centro (Centro 2020)* and *Programa Operacional Regional do Alentejo (Alentejo 2020)*, according to the respective requirements.

## 13. STUDENTSHIP ALLOWANCE

A monthly maintenance allowance is granted according to the table in Annex I of the FCT Regulation for Research Studentships and Fellowships, available here: <https://dre.pt/application/conteudo/127238533>

The studentship may also include additional allowances, according to Annex II the FCT Regulation for Research Studentships and Fellowships, available here: <https://dre.pt/application/conteudo/127238533>

All the studentship holders have a personal accident insurance related to the research activities, which FCT will

support.

All studentship holders who are not beneficiaries of any social protection regime can use the right to social security through the voluntary social insurance regime, under the terms of the Contributory Scheme of the Social Security System. FCT will ensure the charges resulting from contributions under the legal terms.

#### 14. PAYMENT OF STUDENTSHIP ALLOWANCE

Payments due to the studentship holder are made by bank transfer to the respective indicated account. The monthly maintenance allowance is paid on the first working day of each month.

Registration, enrolment or tuition fees components are paid as follows:

- In case the studentship holder has enrolled in a national institution, FCT will directly pay to that institution;
- In case the studentship holder has enrolled in a foreign institution, the grantee is the responsible for its payment to that institution.

#### 15. TERMS AND CONDITIONS OF PHD STUDENTSHIP RENEWAL

The renewal of the studentship always depends on applicant's submission, within 60 working days prior to the renewal start date, of the following documents:

- a) Declaration issued by the supervisor(s) and by the host institution(s) attesting the work plan development and the evaluation of the respective activities;
- b) Updated document proving compliance with the exclusive dedication regime;
- c) Declaration demonstrating the enrolment renewal in the study cycle leading to the doctoral degree.

#### 16. INFORMATION AND PUBLICITY OF THE GRANTED FUNDING

All the R&D activities carried out by the grantee, directly or indirectly financed by the studentship, namely, communications, publications and scientific creations, as well as thesis, must include the reference to FCT and European Social Fund (ESF) financing. In particular, these references should mention the following operational programmes *Programa Operacional Regional do Norte (NORTE 2020)*, *Programa Operacional Regional do Centro (Centro 2020)* and *Programa Operacional Regional do Alentejo (Alentejo 2020)*. Insignia of FCT, MCTES, ESF and EU must therefore be included in the documents referring to these actions, according to the graphic rules of each operational programme.

The disclosure of research results funded according to the RBI provisions must comply with the open access guidelines, publications and other research results in accordance with FCT rules.

For all the studentships, in particular in case of European funded actions, namely the ESF, may be performed monitoring and controlling actions by national or European entities according to the applicable legislation. Grantees must therefore collaborate and provide all the required information, including answering to surveys

and evaluation studies in this area, even though the studentship might have already ceased.

#### **17. NON-DISCRIMINATION AND EQUAL ACCESS POLICY**

FCT and AIR Centre promote a policy of non-discrimination and equal access, thus no applicant may be privileged, benefited, damaged or deprived of any right or exempted from any duty. This includes ancestry, age, sex, sexual orientation, marital status, family situation, economic situation, education, origin or social condition, genetic heritage, reduced work capacity, disability, chronic disease, nationality, ethnicity or race, land of origin, language, religion, political or ideological beliefs or trade union affiliation.

#### **18. APPLICABLE LEGISLATION AND REGULATION**

The present call is governed by this Notice of the Call, the FCT Regulation of Research Fellowships, approved by the Regulation no. 950/2019, published in the Series II of the DR, of 16<sup>th</sup> December, by the Research Fellowship Holder Statute, approved by the Law no. 40/2004, of 18<sup>th</sup> of August, in its current version, and by other applicable national and European legislation.