ANNOUNCEMENT FOR THE AWARD OF A RESEARCH FELLOWSHIP

Title: Research Fellowship for a master's degree holder; 1 vacancy

Call for Applications Reference: 101070537—CROSSCON_BI_2025_01_CALG

A call for applications is now open for the attribution of 1 grant(s) of Research Fellowship for a master's degree holder in the ALGORITMI Centre, within the scope of the R&D project CROSSCON "Cross-platform Open Security Stack for Connected Devices", Project 101070537 — CROSSCON, financed by the European Union (EU) – European Commission, through the Programme Horizon Europe (HORIZON), under the following conditions:

Scientific Area: Electronic Engineering

Recipient category: Students enrolled in:

a) **Degree course:** PhD programme.

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 degree course or 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 degree course or non-academic degree course will be contracted, according to the type of the fellowship, indicating, respectively, the academic year or its duration (star and term).

Profile:

The following are eligible to apply for this competition:

- Nationals or citizens of other member states of the European Union;
- Citizens of third countries;
- Stateless persons;
- Citizens with political refugee status

Candidate admissibility requirements:

- Candidates must have at the date of application, a master's degree in Electronic Engineering and Computers, or related areas. It is required for contractualization, proof of academic qualifications completed at the deadline for applications, including those resulting from academic degree recognition processes.
- Enrolment in master/doctoral programme in the area Electronic Engineering (under the terms indicated above in the points referred to in "Requirement for granting the fellowship")
- **Preferential Requirements:** English (at least with level B2), consolidated knowledge in embedded systems, computer architectures, hardware design, and FPGA.

Admissibility requirements:

- It is essential, under penalty of not being admitted to the competition, to attach the following documents to the application:
- The candidate's curriculum vitae;
- Certificates of the academic degrees obtained or, if applicable, the candidate's declaration of honor that he/she has completed the degrees required in the notice by the application deadline (not applicable to research initiation grants);

- For degrees obtained abroad, the record of recognition of the academic degrees and record of the conversion of the respective final classification to the Portuguese classification scale must be presented, or, alternatively, the candidate's declaration of honor (not applicable to research initiation grants);

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 workplan will be developed under Work Packages WP4, and WP5, Tasks T4.1, T4.2, T5.1, and T5.2, to be added in case of eventual renewals, in a specific document (Work Plan).

The work plan consists in: (i) contribution for the implementation of the "Extensions Primitives for Trusted Services" (WP4 – T4.1); (ii) contribution for the implementation of "Hardware Security Mechanisms and Guarantees" (WP4 – T4.2); (iii) contribution for the implementation and evaluation of the "Testbed for the Use Case Prototypes (WP5 - T5.1); and (iv) contribution for the "Integration of CROSSCON Stack" (WP5 – T5.2).

Work assessment will be verified through the obtain results indicated in the activities report elaborated by the grantee.

This research context and methodological approach is adequate for the development of doctoral thesis of PhD students.

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 ALGORITMI Centre, School of Engineering of University of Minho, located in the Azurém Campus, Guimarães, under the scientific supervision of the Professor Doctor Tiago Manuel Ribeiro Gomes, Assistant Professor at the Department of Industrial Electronics, School of Engineering of University of Minho.

Fellowship duration: The grant will take place for a period of **8 months**, with a provisional starting date on February 2025.

The grant may be renewed, if necessary, up to the maximum period permitted by the project and/or provided for in the legislation and regulations in force for the type of grant.

Amount of the research grant: The value stipend (Monthly Maintenance Allowance) is **2068,65€**/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 contratualization process.

Other components of the research grant:

Tuition fee, in accordance with the terms and conditions described in article 21° of the Regulation of Research Fellowships of the University of Minho (RBIC).

Other benefits:

Reimbursement of Voluntary Social Security (Social Security contributions), corresponding to the 1st level of discounts *(for research grants with a total duration 6 months or higher)* 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:

The selection panel has the following composition:

President: Doctor Sandro Emanuel Salgado Pinto, Principal Investigator at ALGORITMI Center, School of Engineering of University of Minho)

Effective members: Doctor Jorge Miguel Nunes Santos Cabral, Associate Professor at the Department of Industrial Electronics, School of Engineering of University of Minho, and Doctor Tiago Manuel Ribeiro Gomes, Assistant Professor at the Department of Industrial Electronics, School of Engineering of University of Minho

Substitute members: Doctor Paulo Francisco Silva Cardoso, Assistant Professor at the Department of Industrial Electronics, School of Engineering of University of Minho, and Doctor Adriano José Conceição Tavares, Associate Professor at the Department of Industrial Electronics, School of Engineering of 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 applications assessment will focus on the candidate's Merit, following evaluation criteria, valued on a scale of **0 to 20** values:

Applicant Merit - AM (100%):

   a) Academic path (considering the classifications of academic degrees), with a weighting of **60**%;
   i.   Final grade, with a weighting of 50%;
   ii.   Course Scientific Area, with a weighting of 50%
   b) Personal curriculum (considering professional and scientific background), with a weighting of **40**%
   i.   Design and Implementation of embedded systems, with a weighting of 50%;
   ii.   Consolidated knowledge in computer architectures, virtualization and RISC-V, with a weighting of 50%

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

$$AM= (a*0,6) + (b*0,4) \text{ in which,}$$
$$a= (i*0,5) + (aii*0,5) \text{ e, } b= (I*0,5) + (II*0,5)$$

If none of the candidates demonstrate to have a suitable profile for the execution of the work plan, the Jury is entitled to close this call without selecting a candidate.

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 evaluation results project, based in the selection panel minutes, will be send to the applicants by email, in accordance with article 13 of UMinho's RBIC (other funding subject to UMinho regulations).

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).

[The hearing of the interested parties, if excluded, should be justified accordingly with article 124º of CPA]

Complaint and appeal procedures:

The final results of the evaluation will be published through an ordered list (*alphabetically, 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 with delegated competences in this area.

Application deadline and submission:

The call for applications is open from **21/01/2025** till **04/02/2025**.

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 *recrutamento@algoritmi.uminho.pt,* indicating the reference of the call for applications 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

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 degree courses or non-conferring courses, depending on the type of scholarship].

Once all the documentation has been received, the contracting entity has a period of 60 working days to conclude the scholarship contract (in the case of scholarship contracts under UMinho's RBIC, the deadline is 15 working days, under the terms of n°2 of Article 15°). 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, n° 119*, through dispatch n° 6524/2020 of 22-06-2020, ratified by ratification declaration n° 447/2021 of 22-06-2021.

Declaration of Honor
Academic qualifications

I, (full name), candidate for the vacancy for the award of a (type of scholarship), within the scope of the project (name or reference of the project), published on the Euraxess portal, with the reference (ref. notice), declare on my honor that I have completed the academic degree of (academic degree), qualifying for the type of scholarship in the competition, namely the course (designation), by the (University conferring the degree), on the date XX/XX/XXXX, with a final average of XXXXX values on the YY scale.

As it is not possible for me to present proof of qualifications until the end of the competition, I declare that I undertake to present the aforementioned certificate at the conclusion of the scholarship contract, in the event that I am selected for the vacancy in the competition.

As this is true, I hereby date and sign this declaration.

(Place), (date).

_____

(full name)

NOTE: The declaration may only attest to facts that occurred prior to the application.

In the event of a discrepancy between the information contained in the declaration and the documentation submitted for the purpose of contracting the scholarship, only the information contained in the latter will be taken into account.

Funded by the
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Declaration of Honor

I, (full name), bearer of identification document number (XXXX), candidate for a research grant (type of grant), within the scope of the project (name or reference of the project), published on the Euraxess portal, with the reference (ref. call for proposals), declare on my honor that (I have not received any research grants to date / I have received the following research grants) under the Research Grant Holder Statute.

As this is true, I hereby date and sign this declaration.

(Place), (date).

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(full name)