



## ANNOUNCEMENT FOR THE AWARD OF A RESEARCH FELLOWSHIP

**Title:** *Research Fellowship for a master degree holder - CROSSCON; 1 vacancy*

**Reference:** 101070537–CROSSCON\_BI\_2024\_01\_CALG

A call for applications is now open for the attribution of 1 grant(s) of Research Fellowship for a master degree holder within the scope of the R&D project of ALGORITMI Center, 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:** Electronics Engineering.

**Recipient category:** Students enrolled in Electronic Engineering and Computers PhD programme, or related areas.

### 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, issued by the academic services of the Higher Education Institution, indicating, respectively, the academic year or its duration (star and term).

### Candidates profile:

- Candidates must have, at the date of application, a master 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.
- Preferential Requirements: consolidated knowledge in embedded systems, computer architectures, virtualization and trusted execution environments.

**Applicants eligibility:** Applicants must comply with the eligibility conditions laid down in article 9 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.

**Workplan and objectives to be achieved:** The workplan will be developed under Work Packages WP2, WP3, WP4, and WP5, Tasks T2.1, T3.1, T3.2, T3.5, T4.1, T4.2, and T5.2, to be added in case of eventual renewals, in a specific document (Work Plan).



The work plan consists in: (i) contribution to the “CROSSCON Open Specification” (WP2 – T2.1); (ii) contribution for the design and implementation of the “CROSSCON TEE Abstraction and Isolation” (WP3 – T3.1); (iii) contribution for the implementation of the “CROSSCON Hypervisor” (WP3 – T3.2); (iv) contribution for the implementation of the “Bare Metal TEE” (WP3 – T3.5); (v) contribution for the implementation of the “Extensions Primitives for Trusted Services” (WP4 – T4.1); (vi) contribution for the implementation of “Hardware Security Mechanisms and Guarantees” (WP4 – T4.2); and (vii) 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 Center, School of Engineering of University of Minho, located in the Azurém Campus, Guimarães, under the scientific supervision of the Doctor Sandro Emanuel Salgado Pinto, Principal Investigator of ALGORITMI Center, School Engineering, University of Minho.

**Fellowship duration:** The grant will take place for a period of 12 months, with a provisional starting date in September of 2024. The fellowship grant may eventually be renewed up to the maximum duration allowed in the project and/or by the legislation and regulations in force for this type of scholarship.

**Amount of the research grant:** The value stipend (Monthly Maintenance Allowance) is 2068,65€ per month, in accordance with the stipends values in 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. In the event of updating the amounts in the exchange value table, the IR may, if it so wishes, decide on updating the SMM value, up to the updated maximum limit of the respective type of exchange. In case of updating stipends values, the Principal Investigator of the project may, if it so wishes, decide on updating the SMM value, up to the updated maximum limit of the respective type of scholarship.

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 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 João Luís Marques Pereira Monteiro, Full 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 Jorge Miguel Nunes Santos Cabral, Associate 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, with a weighting of 60%;
  - A.1. Final grade, with a weighting of 50%;
  - A.2. Course Scientific Area, with a weighting of 50%.

**Table - Course Scientific Area:**

Área do Curso	Valoração
Electronics Engineering	20
Electrical Engineering	20
Informatics engineering	20
Biomedical Engineering (medical electronics)	18
Related areas	17
Non Related areas	0



Classification of Academic path (A) will be achieved through the following formula:  $A=(A.1 \times 0,5) + (A.2 \times 0,5)$ .

- B. Personal curriculum - Consolidated knowledge in embedded systems, computer architectures, virtualization and trusted execution environments, with a weighting of 40%:
  - B1. Design and Implementation of embedded systems, with a weighting of 50%;
  - B2. Consolidated knowledge in computer architectures, virtualization and trusted execution environments, with a weighting of 50%.

Classification of the Personal curriculum (B) will be achieved through the following formula:  $B=(B.1 \times 0,5) + (B.2 \times 0,5)$

The final classification (CF) of Applicant Merit (AM) will be achieved through the following formula:

$$CF=(A \times 0,6) + (B \times 0,4)$$

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 considered. 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).

*[The hearing of the interested parties, if excluded, should be justified accordingly with article 124<sup>o</sup> 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, in terms of point 3, article 13º of 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).

**Application deadline and submission:** The call for applications is open from **8<sup>th</sup> July till 19<sup>th</sup> of July 2024**.

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](mailto: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 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 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. 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.



ANNEX:



## Declaration of Honor Academic habilitations

(name), applicant to the research fellowship vacancy under the I&D project (title or reference), published in the Euraxess portal, reference xxx, hereby declares to have a degree on **XXXX (name of the course)**, concluded in the **University of XXXX**, on the **XX/XX/XXXX**, with the final grade of XX.

I have submit my diploma for recognition in the **University of XXXX**, according to the Decree-Law n° 66/2018 of August 16<sup>th</sup>, concluded In the **XX/XX/XXXX**, with the final grade of XX.

I further declare that I undertake to present proof of my diploma recognition obtained under the Portuguese Law, until the date of the conclusion of the fellowship contract, in case of being selected for the vacancy in this competition.

As this is true, this declaration will be dated and signed by me.

(Place), (date).

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(name)

## Declaration of Honor Requirements Grant Typology

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<sup>1</sup> DGES (Foreign Degrees and Diplomas): <https://www.dges.gov.pt/en/pagina/degree-and-diploma-recognition?plid=1536>; University of Minho: Recognition of foreign degrees and diplomas: <https://www.uminho.pt/EN/education/Pages/recognition-of-foreign-qualifications.aspx>



**(name)**, applicant to the research fellowship vacancy under the I&D project (title or reference), published in the Euraxess portal, reference **(fellowship Reference)**, hereby declares that complies with the conditions for the type of scholarship of the referred call, reference above, in accordance with the application requirements, legislation and regulations indicated in the notice.

As this is true, this declaration will be dated and signed by me.

(Place), (date).

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