

**CALL FOR RESEARCH POSITION**

CISTER/BIM/02/18

The CISTER Research Unit hosted at the School of Engineering of Porto (ISEP), is opening 1 BIM research position, with ref. CISTER/BIM/02/18. The work is to be developed under the CISTER Research Unit - CEC/04234/2019, supported by National Funds through the FCT/MCTES Portuguese Foundation for Science and Technology, in the following conditions:

**1. SCIENTIFIC AREA**

Software Engineering or Computer Science

**2. REQUIREMENTS**

The candidate must hold a Master's degree in Software Engineering or Computer Science and must fulfil the following list of requirements:

- hold a Master degree with specific focus on aspects related to security in wireless sensor networks using artificial intelligence techniques
- have proven knowledge in security approaches for Wireless Sensor Networks
- have proven knowledge in intrusion detection systems
- have proven knowledge in Big Data, Data Mining, and Machine Learning
- be fluent in English, both written and spoken

The candidate should also preferably:

- have solid knowledge in topics related to advanced software engineering processes using object oriented programming
- have solid knowledge in topics related to database management
- have a track record of published scientific papers
- have proven experience in lecturing topics in the areas of software engineering and artificial intelligence
- demonstrate interest in pursuing PhD studies in the area of real-time embedded computing systems

**3. CONTRACT DURATION**

The position is of 6 months, possibly renewable, up to the limits stated in the regulation.

**4. WORK PLAN**

The workplan will focus on aspects related to the development of software solutions that address the problems related with computer security in the scope of real-time embedded computing systems, supported by principles of artificial intelligence and data analysis.

**5. LEGISLATION**

Law no. 40/2004 of August 18, amended and republished by Decree-Law nr. 202/2012 of August 27, by Law no. 12/2013 of January 29, and by Decree-Law nr. 89/2013 of July 9; Regulation no. 73/2015 of February 16 (published in Diário da República (Official Gazette) no. 32, Series II of February 16, 2015) - ISEP Regulation on Advanced Training and Qualification of Human Resources. FCT Regulation on Advanced Training and Qualification of Human Resources ([PDF](#)) | Published in Diário da República: FCT Regulation on Advanced Training and Qualification of Human Resources, approved by Regulation nr. 234/2012, Series II of June 25 of 2012, amended and republished by Regulation nr. 326/2013, published in Diário da República Series II of July 27 of 2013, amended by Regulation nr. 339/2015, published in Diário da República Series II of June 17 of 2015, and amended by Regulation nr. 137-A/2018, published in Diário da República Series II of February 27 of 2018.

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**6. WORKING LOCATION AND SUPERVISOR**

The work is to be carried out at the facilities of the CISTER Research Unit hosted at the School of Engineering of Porto (ISEP), under the coordination of a PhD member of the Research Unit.

**7. SALARY**

Salary: €980, Payment by Wire Transfer (stipend in accordance with the FCT regulation: <http://www.fct.pt/apoios/bolsas/valores.phtml.pt>), supported by PAD n.º C40984.

According to what is stated in the regulations, and only applicable to exceptional cases and on terms to be defined, an additional amount may be paid.

Only for Foreigners, there may be the additional following payments:

Installation Subsidy: € 1000 (for stays of a minimum of 6 consecutive months)

Travel Subsidy: € 600 (outside Europe); € 300 (Europe)

**8. MÉTODOS DE SELEÇÃO E COMPOSIÇÃO DO JÚRI**

The Jury responsible for the selection will be composed by PhD members of the Research Unit, as follows:

Chair: Dr. Eduardo Tovar (Project Coordinator (PI));

Effective Jurors: Dr. Filipe Pacheco (Substitute Chair) and Dr. Luis Lino Ferreira;

Substitute Juror: Dr. Luis Almeida.

Assessment criteria will be:

- focus of the Master degree (30%)
- knowledge in the required technologies (20%)
- knowledge in the preferable technologies and research topics (10%)
- track record of publications and teaching experience (10%)
- interview (30%)

**Remarks:**

Candidates may be excluded from the call for the following reasons:

- a) For not holding the required academic degree and requirements (see 2. REQUIREMENTS);
- b) For getting a score lower than 9.5 (out of 20) in any of the assessment criteria stages;
- c) For not attending the interview or unavailability to provide any additional information required by the Jury during the selection process.

**9. FORM OF PUBLICATION / NOTIFICATION OF RESULTS**

The evaluation results will be disseminated electronically (by email).

**10. DEADLINE / APPLICATION PROCEDURE**

The interested candidates should submit the application between **20/DEC/2018** to **4/JAN/2019**.

The application must include a **detailed CV, and transcripts**, and should be addressed to the email [jobs@cister-labs.pt](mailto:jobs@cister-labs.pt), until **4/JAN/2019**. Indicate “**ref. CISTER/BIM/02/18**” as email subject.

**11. RESERVE LIST**

CISTER/ISEP reserves the right to consider the non-selected applicants, always according to the final ranking list, for hiring a fellow for the same project in case the initially selected candidate abdicates from the position.

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Porto, 6/DEC/2018