

R&D Engineer [MSc] – Three Positions (Cyber-Physical Systems)

Ref: CITIN-2021-RHAQ-SCF-P15-P10-P09-MSC

CiTIn – Associação Centro de Interface Tecnológico Industrial, is a new technological interface center (CIT), an entity in the Alto Minho Region, Portugal, whose mission focuses on applied R&D, and technology transfer, that aims to operate as a driving force for innovation in a symbiotic and synergistic ecosystem. CiTin is a scientific, technological, and technical assistance association, non-profit and of private nature, with mostly private capital. CiTin arises from the joint action of: i) IPVC - Instituto Politécnico de Viana do Castelo, ii) Municipality of Arcos de Valdevez, iii) CIM Alto Minho, iv) CEVAL - Confederation of Companies of Alto Minho, v) In.Cubo – Incubadora de Iniciativas Empresariais Inovadoras, to which 12 Industrial Companies, which constitute the Founding Partners, have joined. CiTin will develop R&D activities in three areas of specialization, which aim to respond to the future challenges of the manufacturing industry:

1. Advanced Production Systems

- 1.1. Automation/Mechatronics
- 1.2. Robotics
- 1.3. Human-Machine Interaction
- 1.4. Flexible Manufacturing Systems

2. Cyber-Physical Systems

- 2.1. Information Systems
- 2.2. Big Data e IoT
- 2.3. Embedded Systems
- 2.4. Artificial Intelligence

3. Indústria da Mobilidade e Ambiente

- 3.1. Automotive component production
- 3.2. Development of new materials
- 3.3. Circular economy
- 3.4. Eco innovation

Job Description

- Develop applied research in R&D projects in the context of the technological roadmap of the Cyber-Physical Systems Department;
- As a result of the R&D activity, actively collaborate in the production of scientific articles, patent registration, as well as in reporting the progress of the R&D tasks;
- Collaborate in the technical and scientific activity of the Cyber-Physical Systems Department, namely in the execution and the reporting of R&D activities;
- Collaborate in the management of the Department's infrastructure (work tools and laboratory facilities);
- Collaborate in technical-scientific training activities in the context of projects and partnerships established by CiTin in the context of its mission;
- The R&D engineer reports to the Cyber-Physical Systems Department Coordinator.

Job Profile

The candidates should present solid R&D experience in the areas of **embedded systems, cyber-physical systems, IoT/IIoT, information systems, machine learning and data analytics**, and proven skills in development and **integration of new technologies in the context of the Industry 4.0/5.0 paradigms** and in the design and conception of **innovative systems for the factory of the future**, i.e., manufacturing, logistics, etc.

The ideal candidate has the following profile:

- M.Sc. degree (level 7 in the Portuguese National Qualifications Framework, cf. https://www.dges.gov.pt/pt/quadro_qualificacoes?plid=371), in **Electronics Engineering, Electrical and Computer Engineering, Networks and Computer Systems Engineering**, or similar;
- Minimum professional experience of 5 years in R&D activities, carried out in the industry or ENESI;
- Scientific publications in the areas of embedded systems and cyber-physical systems (preferred factor);
- English proficiency;
- Good interpersonal skills and communication skills, sense of responsibility and proactive acting in the workplace.

It is an actor that strives for innovation, so it will be essential to have a resilient, dynamic, proactive, and ambitious spirit.

Advantages

- A good opportunity for your professional development;
- We offer remuneration based on the submitted CV.

CV's should be sent by email to recrutamento@citin.pt with the reference of this announcement in the subject field.

+ info: <http://www.citin.pt>

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