

# Research Group Coordinator (PhD)

## (Cyber-Physical Systems)

Ref: CITIN-2021-RHAQ-SCF-P06-COORD\_PHD

\*\*\*\* Applications until December 15<sup>th</sup> 2021 \*\*\*\*

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

- Coordinate the R&D of the Cyber-Physical Systems Department;
- Define the technological roadmap of the Cyber-Physical Systems Department, coordinate the its R&D team, and plan and manage the Department's R&D projects;
- Develop applied research in the context of R&D projects in the context of the technological roadmap of the Cyber-Physical Systems Department;
- As a result of the research activity, manage the production of scientific articles, patent registration, and report the progress of research work;
- Manage the human resources of the Department's R&D team;
- Manage the Department's infrastructures (work tools and laboratory facilities);
- Collaborate with CiTin's General Director and/or Business Managers in approaching industrial companies to identify solutions for their technological needs;
- The Cyber-Physical Systems Department Coordinator reports to the General Director and the Administration.

## Job Profile

The candidate should present project management skills and 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:

- Ph.D. degree (level 8 in the Portuguese National Qualifications Framework, cf. [https://www.dges.gov.pt/pt/quadro\\_qualificacoes?plid=371](https://www.dges.gov.pt/pt/quadro_qualificacoes?plid=371)), in Electronics Engineering, Electrical and Computer Engineering, or similar;
- Minimum professional experience of 10 years in R&D activities, carried out in the industry or ENESI;
- Minimum of 5 years of experience in leadership roles (direct or subordinate);
- Scientific publications in the areas of automation and robotics (preferred factor);
- Age over 35 years;
- Knowledge and experience in project management;
- Proven ability to deal and communicate with professionals internally and externally;
- Goal-oriented professional, with a focus on business and autonomy;
- 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, ambitious, and conciliatory spirit (consensus generator).

## 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](mailto:recrutamento@citin.pt) with the reference of this announcement in the subject field.

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

Funded by:

