

# Automation/Mechatronics R&D Engineer [MSc]

## (Advanced Production Systems)

Ref: CITIN-2023-RHAQ-SAP-P05b-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:

- |                                       |                                  |  |
|---------------------------------------|----------------------------------|--|
| <b>1. Advanced Production Systems</b> | <b>2. Cyber-Physical Systems</b> | <b>3. Indústria da Mobilidade e Ambiente</b> |
| 1.1. Automation/Mechatronics          | 2.1. Information Systems         | 3.1. Automotive component production         |
| 1.2. Robotics                         | 2.2. Big Data e IoT              | 3.2. Development of new materials            |
| 1.3. Human-Machine Interaction        | 2.3. Embedded Systems            | 3.3. Circular economy                        |
| 1.4. Flexible Manufacturing Systems   | 2.4. Artificial Intelligence     | 3.4. Eco innovation                          |

### Job Description

- Develop applied research in R&D projects in the context of the technological roadmap of the Advanced Production 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 Advanced Production 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 Advanced Production Systems Department Coordinator.



## Job Profile

The candidates should present solid experience in the fields of **automation/mechatronics, collaborative robotics (Co-Bots), computer vision, flexible production systems (Smart Manufacturing)**, and proven competences in the **development and integration of new technologies for factory floor process control and optimization (manufacturing/quality/etc)**, as well as in the **design and conception of flexible production systems for the factory of the future**.

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](https://www.dges.gov.pt/pt/quadro_qualificacoes?plid=371)), in **Mechatronics Engineering, Mechanical Engineering, Advanced Production Systems**, 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 mechatronics, automation and robotics (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](mailto:recrutamento@citin.pt) with the reference of this announcement in the subject field.

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

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