



Digital Manufacturing R&D Engineer [MSc (m/f)]

Advanced Production Systems Department

Ref: CITIN-2023-RHAQ-SAP-P13B-MSc

CiTIn is a private and non-profit scientific, technological, and technical assistance association dedicated to the development of **Applied R&D**, **Technology Transfer**, and **Advanced Training**, aiming at advancing Industry towards the 5.0 revolution. CiTin resulted from the joint collaboration of 12 private industrial companies, 2 public entities (CIM Alto Minho, CMAV), 2 private institutions of public interests (CEVAL, In.Cubo), and 1 higher education institution (IPVC). CiTin plans to make companies aware of the problems that hinder their growth and the continuous improvement of their processes, and act as an innovation driver by fostering the development of their competencies towards the Industry 5.0 paradigm, where humans and machines harmoniously cooperate to build the factory of the future. CiTin has been recognized by dispatch [n.º12688/2022](#) of November 2, 2022 issued by the Ministry of Economy and the Sea, as a Technology and Innovation Center (CTI) and 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 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 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 R&D experience in the areas of **manufacturing engineering, process engineering, digital manufacturing processes and techniques, project management, surveillance and technological intelligence**, 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 QEQ](#)), in **Manufacturing Engineering, Product Engineering, Industrial Management Engineering**, or similar;
- Experience 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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