

Institute of Microelectronics of Barcelona IMB-CNM CSIC

Pilot Line Equipment Installation & Acceptance Manager PIXEurope

The **IMB-CNM** is the largest institute in Spain dedicated to the research and development of Micro, Nano Technologies and Microsystems, with unique capabilities in silicon technology. The institute belongs to CSIC since its foundation in 1985 and is distinguished as a María de Maeztu Unit of Excellence.

IMB-CNM seeks to contribute to the advancement of knowledge, the economic and social development of society, the training of researchers and engineers, and the provision of advisory services to both public and private entities.

The institute is located at the Autonomous University of Barcelona (UAB) Campus and contains the largest clean room facilities in Spain with full capability to process its own CMOS and integrated photonics technologies.

The IMB-CNM Photonics Platform specializes in the simulation, design, fabrication, and characterization of the fundamental components that form the cell library for developing integrated photonic circuits based on CMOS-compatible technology.

Context:

PIXEurope, is a flagship Pilot Line funded under the European Chips JU program. With €400 million in investments and a consortium of 20 partners across 11 countries, the project aims to reinforce Europe's strategic autonomy in photonic technologies and accelerate industrial uptake of cutting-edge integrated photonics. Over the next decade, PIXEurope will enable the transfer of advanced technologies to manufacturing environments, while fostering innovation and scalability across the European photonic ecosystem.

The IMB-CNM Photonics Platform, led by Prof. Carlos Dominguez, is a key player as a technological centre, featuring Spain's largest micro- and nanofabrication cleanroom for research and boasting a 40-year track record in chip design and manufacturing.

What will you do:

The successful applicant will serve as the operations lead, overseeing the coordination of equipment installation, validation and acceptance within the pilot line, as well as being responsible for the equipment operation during the technology development phase.

The job involves design and development of a centralised equipment operations database, supervision of the operations system implementations, as well as coordination with PIXEurope Pilot Line Project Manager and Pilot Line Director to ensure smooth functioning of the pilot line activities and overall project success.

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Who we are looking for:

The ideal candidate is a highly skilled engineer with solid experience in semiconductor or photonics manufacturing environments, bringing strong knowledge of industrial procedures and operational excellence.

- ✓ Expertise in equipment acceptance, validation and database creation, the candidate is able to design and implement technology parametrization and production line operation systems that ensure high standards of quality and reliability.
- ✓ Proven ability in production line management, combined with a hands-on approach to problem-solving and continuous improvement.
- ✓ Strong project coordination skills, together with the capacity to work across multidisciplinary teams and international consortia, make them an effective contributor to the success of large-scale, collaborative initiatives.
- ✓ Excellent communication, organisational, and leadership skills, enabling smooth coordination with project managers, directors, and technical teams.

What we offer:

- ✓ Full-time position based in Barcelona (UAB Campus).
- ✓ A dynamic, international, and collaborative research atmosphere, working closely with the European Chips Joint Undertaking ecosystem.
- ✓ Excellent working conditions with a supportive and inclusive workplace culture.
- ✓ Competitive salary aligned with the candidate's experience and institutional standards.
- ✓ Opportunities for training and career growth within the framework of the HR Excellence in Research and María de Maeztu initiatives.
- ✓ The chance to contribute to cutting-edge research in micro- and nanoelectronics, reinforcing Europe's leadership in photonic technologies.
- ✓ Access to Spain's largest clean room facilities for micro/nano fabrication as well as to a network of an international cutting-edge technology research network

Key requirements:

- ❖ Educational / Professional Background:
 - Highly skilled engineer with experience in semiconductor or photonics manufacturing environments.
- ❖ Technical Expertise:
 - Strong knowledge of industrial procedures and operational excellence.
 - Experience in equipment acceptance, validation, and process integration.
 - Ability to design and implement efficient operations systems ensuring high quality and reliability.
 - Proven ability in process modelling, technology parameterisation, and production line management.
- ❖ Project & Team Skills:
 - Hands-on approach to problem-solving and continuous improvement.
 - Strong project coordination skills in multidisciplinary teams and international consortia.

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- ❖ Communication & Leadership:
 - Excellent communication, organisational, and leadership skills.
 - Ability to coordinate effectively with project managers, directors, and technical teams.
- ❖ Motivation & Strategic Alignment:
 - Commitment to Europe's strategic autonomy in photonic technologies.
 - Interest in contributing to innovation, scalability, and industrial uptake in integrated photonics.

Language Requirements:

- English, Full working competence
- Spanish, Basic
- Catalan, Not required

Interested in joining us?

Complete this [form](#) and send your CV*, Motivation Letter and Academic Transcripts** to Talent@imb-cnm.csic.es, with the subject: "PIXEurope - Pilot Line Equipment Manager". Incomplete or non-eligible applications will be automatically rejected.

*Applicants are kindly advised to ensure that their CVs clearly demonstrate compliance with the requirements of the position. CVs should include precise dates, relevant skills, and notable achievements that evidence the candidate's suitability and distinction in the selection process.

**Provisional academic transcripts can be obtained at <https://sede.educacion.gob.es/sede/login/inicio.jjsp?idConvocatoria=818>

Deadline: September 21st, 2025

Shortlisted candidates will be contacted by **September 29th, 2025** to be informed of next steps.

Check our website for more information about the IMB-CNM and our research activities

<https://www.imb-cnm.csic.es/en>

Take the next step in your research career with us!

*By applying, you accept our [data protection policy](#).

**IMB-CNM (CSIC) adheres to the [European Charter and Code of Conduct for Researchers](#), ensuring full alignment with their principles and requirements, including equal opportunity, transparency, merit and ability, caring for an open, fair, and excellence-based hiring processes.

IMB-CNM holds the [HR Excellence in Research award](#), which acknowledges CSIC's commitment to continuous improvement in HR strategies for researchers.