



Your worldwide partner for nano-enabled solutions

At the forefront of nanotechnology discovery and advancement

A leading player in clean energy solutions, life sciences, environmental sustainability, and information & communication technologies

INL- International Iberian Nanotechnology Laboratory is the intergovernmental organisation **dedicated to nanosciences and nanotechnology** established under international laws and recognised by the **United Nations**.

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Research Facilities Services

A centralised, open-access infrastructure providing advanced equipment, techniques, and expertise, with services spanning design, fabrication, and characterisation.

- **Advanced Electron Microscopy and X-Rays**
- **Micro- and Nanofabrication (1,000 m² cleanroom)**
- **Nanophotonics and Bioimaging**

Facilities are operated by highly qualified scientists and engineers with a service-oriented approach, providing end-to-end support across the R&D value chain.

Commissioned Services

These services include designing and executing research activities, developing prototypes, testing solutions, and providing expert analysis using INL's advanced facilities and scientific expertise. The goal is to deliver tailored, high-quality results that accelerate innovation and bring ideas closer to market or societal application.

- **Advanced Materials**
- **Advanced Computing**
- **Advanced Sensors and Devices**
- **Digital Solutions**
- **Advanced Sensors and Devices**

Research & Development

Information and Communication Technologies

Advancing AI, machine learning, quantum technologies, and neuromorphic computing. Work spans neuromorphic systems, flexible electronics, quantum sensing, nanoscale fabrication, and nanolasers, shaping the next generation of computing and communication technologies.

Energy and Environment

Developing solutions for clean energy, climate action, and sustainable systems. Focus areas include energy storage and conversion, environmental monitoring, sustainable materials, and advanced sensing, driving innovation in energy efficiency and resource management.

Life Sciences

Harnessing nanotechnology to transform healthcare. Research covers biosensing, nanomedicine, biomedical devices, tissue engineering, and molecular imaging, creating next-generation solutions to improve healthcare worldwide.

Transversal Research & Development Lines

- Semiconductors - Chips
- Advanced Innovative Materials
- Quantum Science and Technologies
- Artificial Intelligence

Driving Semiconductor Innovation under the EU Chips Act

INL is at the forefront of Europe's semiconductor renaissance, with leading roles across key EU Chips Act initiatives. It coordinates **POEMS, the Portuguese Competence Centre for Semiconductors**, strengthening the national ecosystem and connecting it to European networks. At the EU level, INL plays a strategic role in **EuroCDP** (EU Chips Design Platform), helping align activities across EU Chips Act programmes. INL is also a key partner in the **APECS** pilot line for advanced packaging and heterogeneous integration, and contributes scientific expertise to **DIREQT, CHAMP-ION** and **SPINS**, advancing quantum-enabled semiconductor technologies. Together, these roles reinforce Europe's semiconductor innovation capacity.

From Discovery to Impact

Transforming innovations into products and solutions via IP licensing, spin-offs, and industry partnerships.

20

Research & Engineering Groups

+400

People

+500

Partners Worldwide

+35

Nationalities



WE FOCUS ON

01 SCIENCE

Answering fundamental questions about nanoscale phenomena.

02 TECHNOLOGY & SERVICES

Turning science into societal solutions with tailored, advanced support.

03 SOCIETY

Connecting science with citizens to inspire engagement and trust.

04 TALENT

Empowering people to innovate, lead, and shape the future.

For more information:

office@inl.int

www.inl.int
Av. Mestre José Veiga,
Braga 4715-330, Portugal

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INL User Facilities



Medical Devices
Design, development, and testing