



YOUR WORLDWIDE PARTNER FOR SCIENCE & INNOVATION

Shaping the future together in Clean Energy, Food, Health,
Smart Digital NanoSystems, Sustainable Environment and Advanced Materials & Computing.

INL - International Iberian Nanotechnology Laboratory is the **intergovernmental organisation** dedicated to **Nanosciences** and **Nanotechnologies** recognised by the **United Nations**.

More than **400 people** of **35 nationalities** and diverse scientific backgrounds **work everyday for the benefit of our society** and interdisciplinarity plays a vital role in all lines of research.

INL assumes a **leading international role** in facilitating and coordinating **nanotechnology-based research** programs and projects that generate knowledge, products and services for the benefit of industry and society.

www.inl.int

INL 
INTERNATIONAL IBERIAN
NANOTECHNOLOGY
LABORATORY

Your worldwide
partner for science
& innovation

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Research Core Facilities Services

A centralised infrastructure that provides access to advanced equipment, techniques, and expertise. It operates as an open-access facility and offers researchers from academia and the industrial sector a portfolio of services ranging from design to fabrication and characterization.

- :: **Advanced Electron Microscopy**
- :: **Micro and Nanofabrication**
- :: **Nanophotonics & Bioimaging**
- :: **Materials Characterisation**

Facilities run by highly qualified scientists and engineers with a service-oriented mindset who provide support throughout the entire research and development value chain.



what we offer

R&D Services

One-time tailor-made solutions starting from our existing technology:

- :: **Advanced Computing**
- :: **Advanced Materials**
- :: **Digital Solutions**
- :: **Advanced Sensors and Devices**
- :: **Bioactive Food Ingredients**
- :: **Nanocoatings**

Additional Services

As an intergovernmental organisation and a research technological organisation, INL hosts both diplomatic missions and scientific & innovation events.

- :: **Engineering Services**
- :: **Scientific and Innovation Events**
- :: **Incubation Services**



Discover our missions being addressed by our multi-disciplinary research and engineering groups, together with technical experts from our research core facilities.

Advanced Materials and Computing

Aiming to reach beyond the forefront of knowledge by highly exploratory research, we focus in areas of advanced materials and computing where INL has the suited facilities, knowledge, and ecosystems developed for exploratory research.

Clean Energy

The most used energy sources today are based on resources that will not be naturally renewed at the pace at which these are currently being consumed. Therefore, there is an urgent need to develop new materials and technologies that will enable society to convert to renewable energy sources.

Food for the Future

The increase in world population has implications for the food supply and the conventional methods currently used. To address this need, we at INL work towards applying nanotechnology to build a better future Agri-food system.

Precise Personalised Health Tech

To address the health challenges present today in society, we explore new technologies combining both the biological understanding of diagnostics, therapeutics, theranostics, drug delivery, and biomarkers with the engineering capabilities in sensors, microfluidics, fluid mechanics, electronics, nuclear magnetic resonance, integration, photonics, imaging and microscopy.

Smart Digital NanoSystems

New and emerging paradigms like the Internet of Things (IoT), Industry 5.0, Digital Health and Smart Cities rely on an unprecedented convergence between hardware and software. At INL we make this possible by developing new disruptive devices (such as sensors, actuators, nanoelectronic components, photonic components) and new system architectures (such as ultra-low power electronics, novel computation paradigms, reconfigurable circuits that take profit of multi-functional device).

Sustainable Environment

The scarcity of clean water and raw materials are key drivers for nano-enabled solutions developed at INL. We develop AI-enabled digital platforms using nanotechnology to eliminate environmental risks such as water pollution, air contamination, and endangerment of biodiversity by invasive species.



+400
people



+35
nationalities



www.inl.int
Braga - Portugal



47.000m²
total area



7,500 m²
laboratory space



WHAT WE DO



01 SCIENCE

Discover our areas of research and expertise, where we dive into nanoscience and intermix various disciplines to transform it into nanotechnology.

02 TECHNOLOGY

By nourishing multiple disciplines in house and with partners, we develop and deploy solutions to the market.

03 SERVICES

INL has state-of-the-art scientific equipment which can be used by internal and external stakeholders within the research, technology, and innovation. You can access to this open facility with expert support, either remotely or in-person, for full-service or for independent use after initial in-house training.

04 SOCIETY

INL is committed to disseminating to all audiences the nanotechnology concepts, and to bring society closer to our scientific developments. Visit our website and explore our activities and events.

For more information:



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