INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY

Opportunities in integrated nanophotonics, neuromorphic photonics, and quantum photonics

International Iberian Nanotechnology Laboratory

Bruno Romeira

Discover your career in photonics: opportunities in South Europe

INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY

Research Scientist PI

PhD in Physics

Bruno Romeira
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PhD, University of the Algarve and University of Glasgow

Postdoctoral Researcher, University of Ottawa

Marie Skłodowska-Curie Fellow, Eindhoven University of Technology

Research Scientist PI, INL

Research topics:

Integrated nanophotonics

Neuromorphic photonics

your partner for science and innovation

INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY

Two Member States	Spain & Portugal
Initial Investment	100 M€
Campus Area	47,000 sqms

www.inl.int

Mission

To excel in nanoscale research for the benefit of society.

Vision

To lead in nanotechnology by fostering excellence and global recognition, making meaningful contributions to shape the future.

INTERNATIONAL IBERIAN NANOTECHNOLOGY LABORATORY

Certifications

HR EXCELLENCE IN RESEARCH

INL User Facilities

Medical Devices
Design, development, and testing

Administrative Staff 82

Nationalities 32

Researchers and Engineers 461

Personnel 543

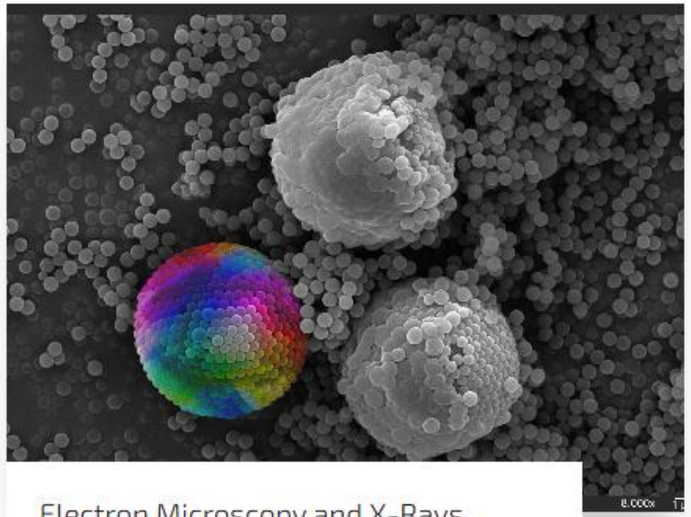
Graduates PhD & MSc 37

Ongoing Projects 208

Filed Patents 9

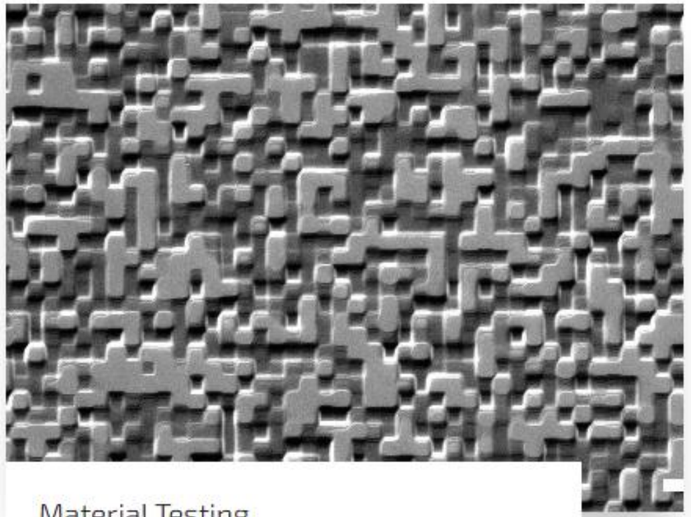
RESEARCH CORE FACILITIES

www.inl.int



Electron Microscopy and X-Rays

Show More



Material Testing

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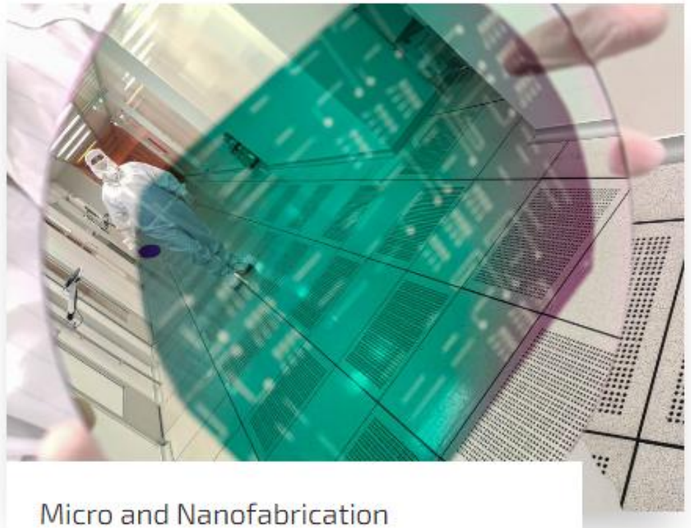

Micro and Nanofabrication

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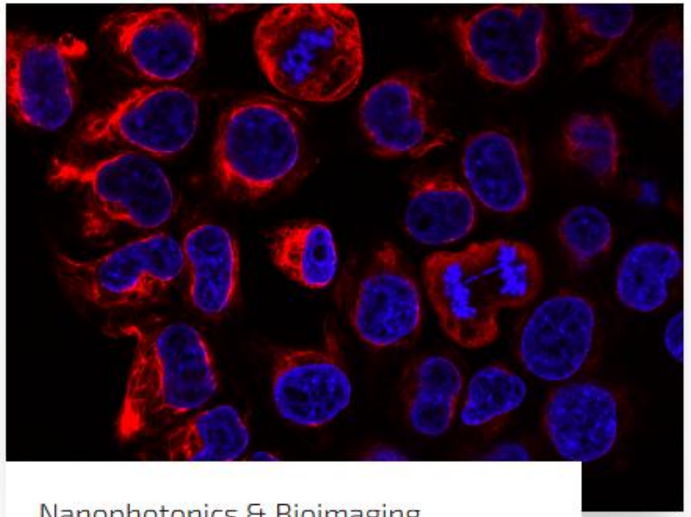


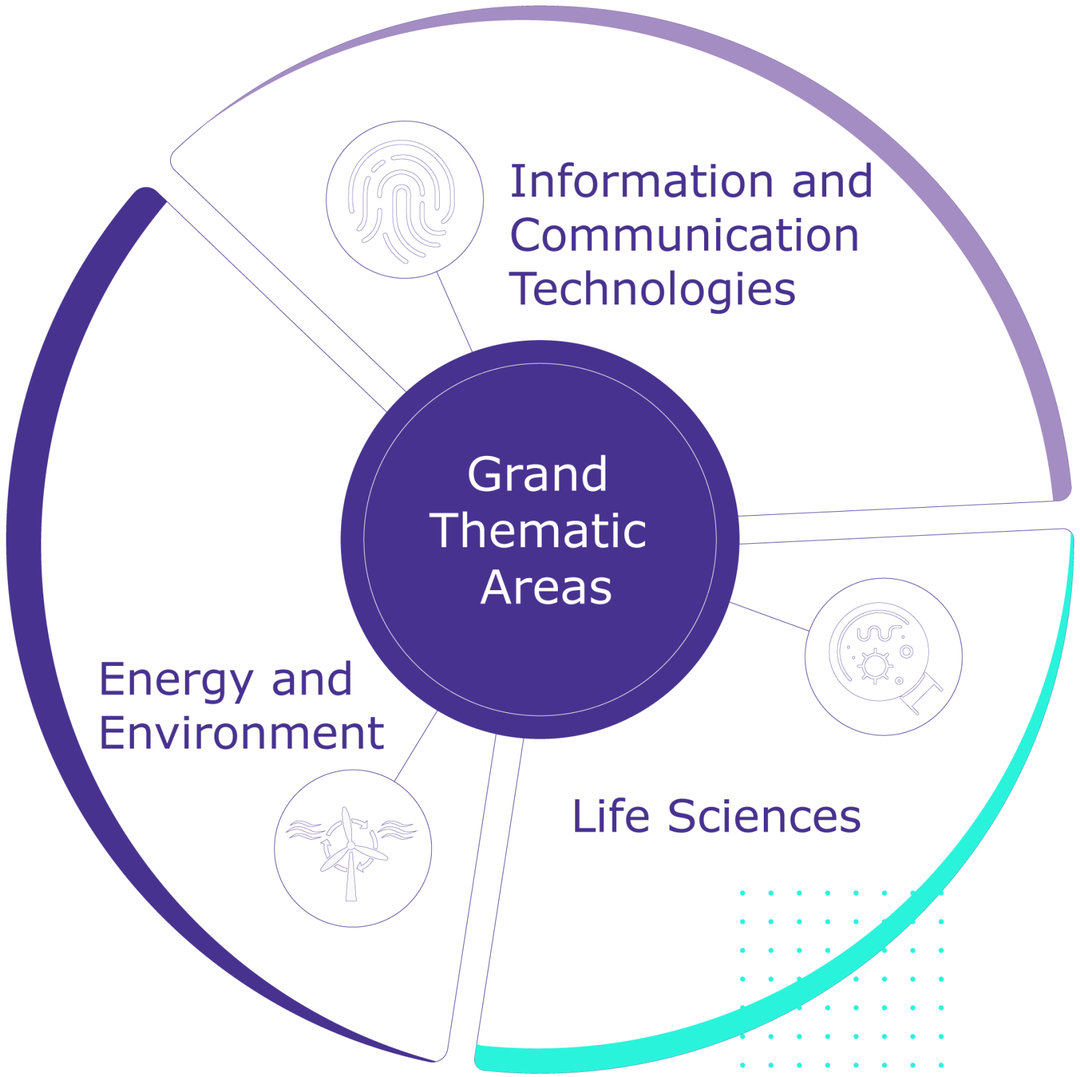
Nanophotonics & Bioimaging

Show More

GRAND THEMATIC AREAS

Research & Engineering Groups

20



INFORMATION AND COMMUNICATION TECHNOLOGIES

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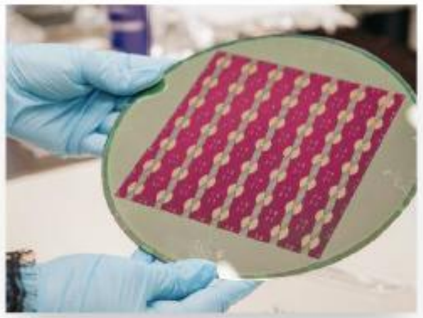
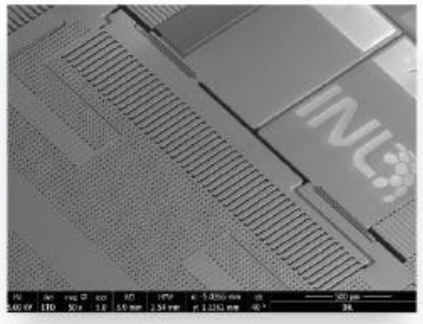
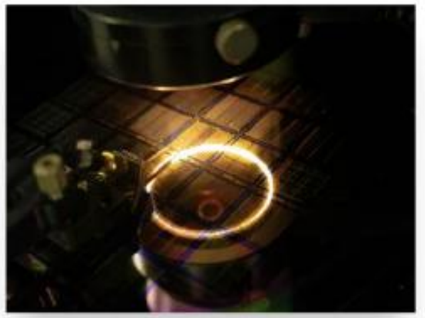


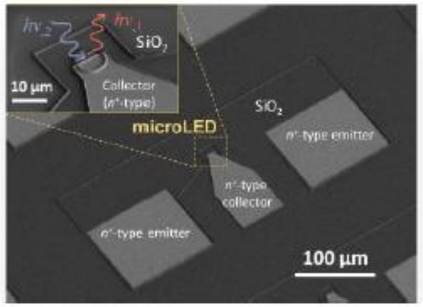
Graphene Devices



MEMS/NEMS



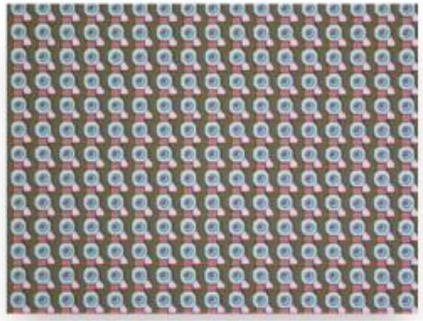
Spintronics



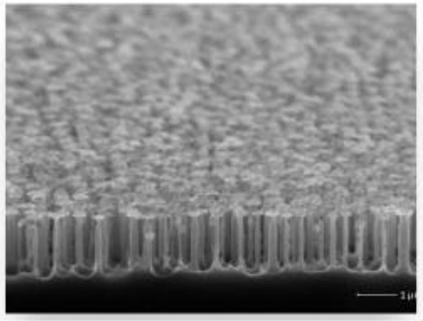
Nanophotonics

Systems Integration

Autonomous Sensor Networks



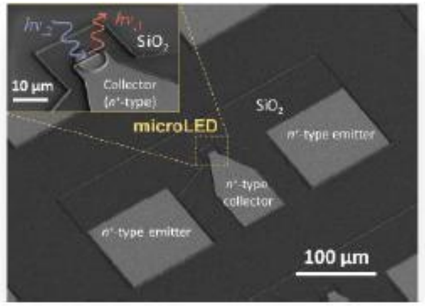
Beyond CMOS



Quantum Science and Technology

New Paradigms for Computing

INFORMATION AND COMMUNICATION TECHNOLOGIES



Nanophotonics

III-V semiconductor nanoLEDs, nanophotodetectors,

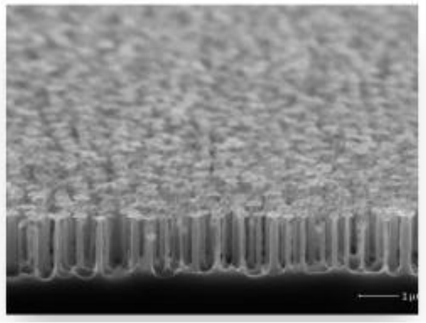
Photonic sensors based on polymer PICs and SiN PICs

3D microfabricated polymer optical interconnects

New Paradigms for Computing

Neuromorphic photonics: spike-based sensing and computing

Brain-inspired artificial neurons and memories (III-V, 2D materials, spintronics, phononics, NOEMs)



Quantum Science and Technology

Quantum photonics sensing and computing

Single quantum emitters in 2D materials and devices

NV center in diamond based nanomagnetometry

ADVANCING SEMICONDUCTOR INNOVATION

EuroCDP

PEMS Portuguese Competence Centre in Semiconductors

Chips Fund

USERS

SMEs | System Houses | IDMs | RTOs

Skills Initiatives

Competence Centres

SUPPLIERS

Equipment

Materials

Tools

Services

Design platform

EDA tools

Design libraries

Quantum Tools/IP

Pilot Lines

PL 1 | PL 2 | .... | PL n

Quantum Pilot Lines

MANUFACTURERS

Fabs

Packaging

Assembly

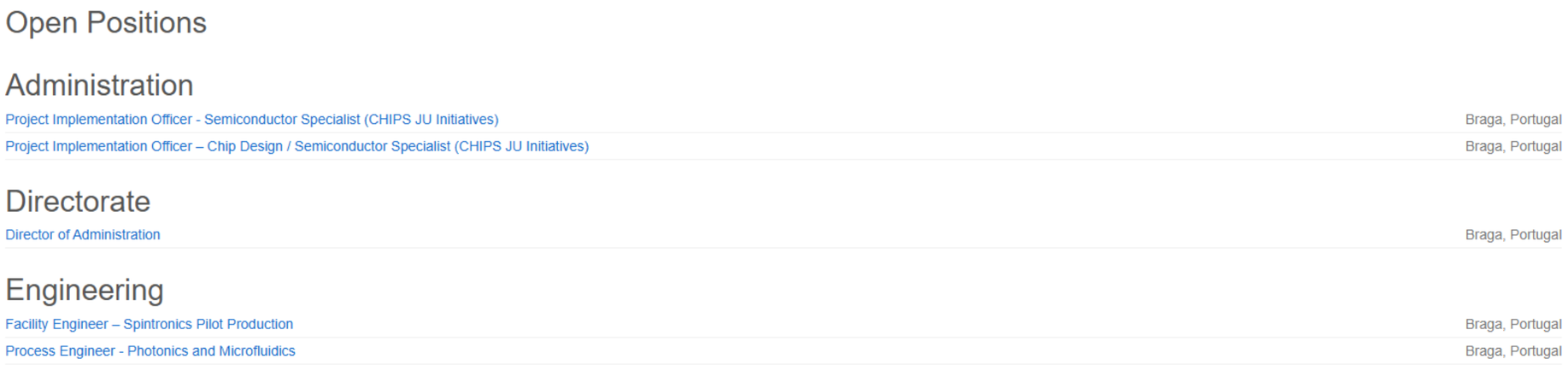
Testing

APECS

SPINS
CHAP-ION
DIRECTQT

JOB OPPORTUNITIES 2026-2027

- **Research scientists**
- **Postdoctoral researchers**
- **Research scientists and engineers**
- **Cleanroom technicians and engineers**



Open Positions

Administration

Project Implementation Officer - Semiconductor Specialist (CHIPS JU Initiatives)	Braga, Portugal
Project Implementation Officer – Chip Design / Semiconductor Specialist (CHIPS JU Initiatives)	Braga, Portugal

Directorate

Director of Administration	Braga, Portugal

Engineering

Facility Engineer – Spintronics Pilot Production	Braga, Portugal
Process Engineer - Photonics and Microfluidics	Braga, Portugal

https://www.careers.inl.int/careers

- **Grants' opportunities (e.g., Marie Curie doctoral, La Caixa fellowships)**
- **Internships in all career stages**

Thank you for your attention!

Our Website

www.inl.int