

Spain for **Microelectronics**



INVEST IN
SPAIN



Why Spain for *Microelectronics?*

The microelectronics sector is strategic for Spain's economic competitiveness, digital transformation and technological autonomy.

- ✓ **Robust Industrial Base:** Spain is experiencing growing demand for microchips in key sectors of the Spanish economy such as the automotive industry (which accounts for 10% of GDP), the chemical industry (6.1% of GDP), Industry 4.0, the Aerospace industry, Telecommunications, Digital Infrastructure and Healthcare.
- ✓ **Government commitment to industry:** PERTE Chip program and incentives for R&D and manufacturing.
- ✓ **Skilled Talent Pool:** Over 200,000 STEM graduates annually and competitive labor costs.
- ✓ **Innovation Ecosystem:** Leading research centers, universities, and collaboration under EU programs like Horizon Europe.
- ✓ **Sustainability & Energy:** Competitive renewable energy resources for green semiconductor production.



Facts & Figures



Public support

Spain

Specific aid programme: **PERTE Chip, with a budget of €12.25 billion, aims to strengthen the value chain of the Spanish microelectronics and semiconductor industry** from a comprehensive perspective, covering all phases involved in the design and manufacture of chips.

Aid programmes available for the development of R&D activities.



Availability of talent

52 universities offer degrees related to electronics and 27 offer specialised master's degrees in microelectronics. There are also specific doctoral programmes in semiconductors at approximately 17 universities.

Each year, around 2,000 students graduate with a bachelor's degree in electronics and almost 200 with a master's degree in related areas.



Investment opportunities

- Chip design (especially RISC-V).
- Integrated photonics.
- The back-end segment of the value chain, i.e. the stages of encapsulation, assembly and testing of semiconductors (OSAT).
- High-power semiconductors.
- Sustainable production of critical materials.
- Electronic device recycling.
- Talent development.



Spain's technological assets

- **Spain is leader in the integrated photonics sector in the EU.**
- National Centre for Microelectronics (CNM-CSIC).
- Barcelona Supercomputing Centre (BSC-CNS): one of the world's most powerful supercomputers (MareNostrum, ranked eighth globally) that leads research and development in RISC-V-based processor architectures.
- IBM Quantum Computing Centre (Basque Country): IBM's sixth quantum computing centre in the world, which houses a 127-qubit IBM Quantum System One quantum computer (operational since 2024).
- Galician Supercomputing Centre (CESGA): home to Qmio, a 32-qubit quantum computer.
- Laboratories with clean rooms and the capacity to manufacture integrated circuits on small wafers.
- Advanced infrastructure for telecommunications, **Spain is the European leader in the deployment of 5G and in the development of projects related to 6G technology.**



European projects

- PIXESpain, associated with the advanced photonics pilot line PIXEurope, includes partners from Austria, Belgium, Finland, France, Ireland, Italy, Poland, Portugal, Spain, the Netherlands and the United Kingdom.
- MicroNanoSpain dedicated to microelectronic design and manufacturing.



International companies in Spain

- IMEC is building a chip design centre in Málaga.
- Intel has created a joint laboratory with the BSC.
- CISCO has set up its first european chip design centre in Spain.

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OUR INTERNATIONAL NETWORK



Head office:
Paseo de la Castellana 278
28046 Madrid (Spain)
investinspain@icex.es
www.investinspain.org



NIPO 224250354



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