



# Workshop on **ADVANCED CHARACTERISATION AND TECHNOLOGY SERVICES FOR SEMICONDUCTOR INDUSTRIES AND QUANTUM TECHNOLOGIES**

There will be a pitch session open  
to participating companies!

11<sup>th</sup> of June 2026  
9:30-17:30 h CEST

ALBA Synchrotron, Carrer de la Llum 2-26,  
08290 Cerdanyola del Vallès, Barcelona, Spain

Semiconductors, semiconductor-based integrated circuits and Quantum Technologies are becoming ever important in today's economy. They are driving technological progress, and play an important strategic role in modern geopolitics. Companies, startups and institutions are engaging in collaborative projects that aim towards establishing Europe as a global reference in the design and manufacture of semiconductors.

The challenge is political but also scientific. The processes involved in the manufacture of modern chips, happen at the nanometric level. At this scale, extremely precise machinery and characterisation tools are needed. Together we will discover how large-scale research infrastructures and technological centers provide state-of-the-art tools that are helping to develop the next generation of devices, streamlining research, manufacture and testing. The goal of this workshop is to foster networking between leading professionals from pivotal sectors of the semiconductor and quantum technologies value chains and ultimately help companies gain a competitive advantage.

# Program

**9:30-10:00**

Registration

**10:00-10:10**

**Welcome and introduction.**

Caterina Biscari. ALBA Synchrotron, Director (Spain)

**10:10-10:30**

**Use of synchrotrons in semiconductor R&D.**

Paul van der Heide. IMEC, Director of the Materials and Component Analysis Department (Belgium)

**10:30-10:50**

**Towards Intelligent Quantum Computers.**

Román Orús. DIPC and Multiverse Computing, Ikerbasque Research Professor and co-founder and CSO of Multiverse Computing (Spain)

**10:50-11:10**

**Opportunities for EUV Optics and Materials with Synchrotron Analytics.**

Eric Pellegrin. Carl Zeiss GmbH, Research Associate at ZEISS Semiconductor Manufacturing Technology Segment (Germany)

**11:10-11:30**

Break and networking

**11:30-11:50**

**ASML, Lithography and Metrology challenges.**

Olivier Balmes. ASML, Group Lead of Light Sources Research (Netherlands)

**11:50-12:10**

**To be announced**

José Garrido. InnoFab and ICN2, ICREA Research Professor of the ICN2 Advanced Electronic Materials and Devices Group and CSO of INBRAIN Neuroelectronics (Spain)

**12:10-12:30**

**From lab to state-of-the-art technology, the role of research infrastructures in innovation.**

Bárbara Calisto. ALBA Synchrotron, Industrial Liaison Officer (Spain)

**12:30-13:15**

3-min pitches by the participant companies.

**13:15-14:15**

Lunch and networking

**14:15-14:25**

Move to exhibition area

**14:25-15:45**

Exhibition. Booths from the organiser and co-organisers

**15:45-16:45**

Guided tour of the ALBA facilities

**16:45-17:30**

Refreshments and networking

**Moderator:**

Alejandro Sánchez, ALBA Synchrotron, Head of the Industrial Liaison Office

**WiFi access:** albaguest (guest2010)

**Note on the language:** The official language of the workshop will be English but Q&A in Catalan or Spanish will be possible.

**Organiser**



**Co-organisers**



**Contact:** industrialoffice@cells.es

\* The number of participants is limited to 80. Participation is free of charge but moderated.

**Registrations**

