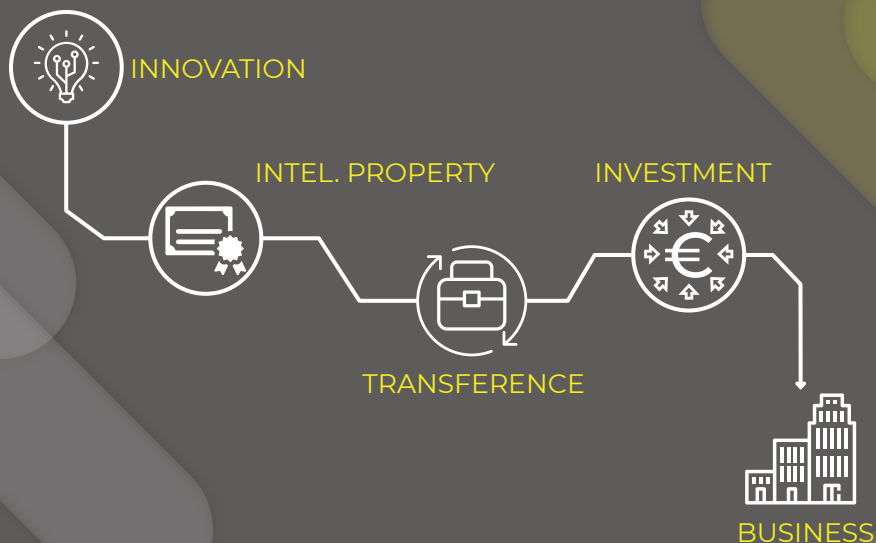


# NANOTECHNOLOGY & INDUSTRY for PhD Students 2021

## BROCHURE



Societat Catalana de Nanociència i Nanotecnologia

# Programme

16:00 Opening and Introduction  
*Research Committee SCN<sup>2</sup>*



**16:10 Carles Rubio, MSc.**  
*Business Developer, IREC*



**16:30 Íker Arroyo, MSc.**  
*Scientific Researcher, Eurecat*



**16:50 Ivana Malvacio, Dr.**  
*Project Manager, Nanomol Technologies S.L.*

**17:10 Damià Viana, Dr.**  
*Systems Engineer, InBrain Neuroelectronics, S.L.*

17:30 Break



**17:40 Round Table Debate: “The cross-talk between Research and Industry before and after the PhD”**

18:25 Closure  
*Research Committee SCN<sup>2</sup>*

# Event Abstract

Nowadays, Nanoscience has arisen as one of the most applicable and innovative ways of designing new technologies. Nevertheless, the gap between basic research and industrial development is still an issue of concern. In this webinar, we will get insights on how research and different industrial profiles take profit from Nanotechnology, in order to generate useful products that will eventually reach the customer.

Although the generation of applicable engines is one of the main objectives that lead research, basic nano-scientists aren't usually familiar with the procedures that are required for transferring their discoveries from the laboratory to the customer. Questions like specific policies for industrial development of nanotechnological products, or the way industries see the nanotechnologies that are actually being commercialized, are of huge relevance for researchers' formation, and will be addressed on this webinar.

In this webinar, we will learn about how Nanotechnology is approached by spin off creators and industrial research teams, from the point of view of professionals with scientific formation in academia, that are working on the commercialization and industrialization of products based on Nanoscience and Nanotechnology. We will review some professional profiles often unknown by academic researchers, which are of huge relevance in the transition between academia and industry.

This event is also intended to offer a place for discussion, including a round table debate in which the aspects of research and industrial development of nanotechnologies, during and after the PhD, will be assessed. Open questions on moving from the academic research to industry will also be discussed.

# Speakers



**MSc Carles Rubio**  
Business Developer  
Catalan Institute for Energy  
Research - CERCA

MSc Carles Rubio holds a bachelor degree from the University of Barcelona (Spain). After the degree, he earned a Master of Science in Advanced Nanotechnologies.

He soon discovered his passion for the world of business and enterprise, and successfully obtained a Master in Business Administration (MBA), plus several courses on entrepreneurship. During his working life, he has been in touch with research by working as an associated technician at the Catalan Institute of Nanoscience and Nanotechnology (ICN2), and with business by being an entrepreneur for 2 years. He is currently working at the Catalonia Institute for Energy Research (IREC) as a BUSINESS DEVELOPER.



**MSc Iker Arroyo**  
Researcher  
Eurecat

MSc Iker Arroyo holds a Master in Engineering and Technology of Electronic Systems (Rovira i Virgili University) and a Bachelor in Nanoscience and Nanotechnology (Universitat Autònoma de Barcelona).

Specialist in semiconductor technology for optoelectronic applications. Currently at Eurecat he is a RESEARCHER at the Printed Electronics Unit, leading the design of printed electronics solutions for national projects.



# Programme



**Dr. Ivana Malvacio**  
Scientific Project Manager  
*Nanomol Technologies, S.L.*

Dr. Ivana Malvacio graduated as Chemist at the University of Córdoba (Argentina), where she obtained her PhD degree in Organic Synthesis and Computational Chemistry, in 2015.

After her PhD, she moved to the Università degli studi di Cagliari (Italy), where she worked on the molecular modeling of the RND Transporter AcrB of *E. Coli*, as a postdoctoral researcher. In 2018, she joined NANOMOL TECHNOLOGIES as a Senior Research Scientist, and since 2019, she focuses on R&D and Scientific Project Management in the same company. She has a multidisciplinary scientific background with a global vision of R&D projects in industry, from the research phase to commercialization.



**Dr. Damià Viana**  
Systems Engineer  
*InBrain Neuroelectronics, S.L.*

Dr. Damià Viana. Physicist by training, he holds a Master' Degree in Applied Physics and Engineering from the Technical University of Munich and a PhD in Electronic Engineering and Telecommunications from the Autonomous University of Barcelona (UAB).

During his PhD at the UAB and the Catalan Institute of Nanoscience and Nanotechnology (ICN2), he developed EGNITE, a graphene technology to electrically interface with the nervous system at a cellular level with minimal invasiveness to increase the efficacy and safety of therapies to treat diseases in the brain, the retina and the peripheral nerve system. For these implants to reach human applications and positively impact patients suffering from brain diseases, the start-up INBRAIN Neuroelectronics was ad-hoc created. Dr Viana currently works in INBRAIN as a Systems Engineer and leads the technology developments to bring the EGNITE technology to patients.



# Our Association

The Catalan Society of Nanoscience and Nanotechnology (SCN2) is an independent, non-profit, scientific association based on volunteering. Founded in 2016, the SCN2 is the only civil society entity specialized in nanoscience and nanotechnology in Catalonia with a cross-cutting perspective. The association, founded and promoted by research staff and young students, is a **bottom-up society**.

Our ambition is to become an active platform for **social transformation and scientific reference**, and to achieve it, we aim to **promote** and **connect** nanoscience and nanotechnology in Catalonia by involving society as a whole.

The objectives and actions of the entity are structured around four strategic lines in the territorial scope of action of Catalonia:

1. **DEBATE** nanoscience and nanotechnology with society
2. **COMPLETE** the education of stakeholders related to nanoscience
3. **CONNECT** people and entities of the Catalan research and innovation cluster
4. **PROMOTE** the development of nanoscience and nanotechnology

These strategic lines of action translate into projects aimed at four different target groups: undergraduate and master's students in nanoscience and nanotechnology, research staff in nanoscience and nanotechnology, the UAB nano student community and civil society.

Currently, the association has a total of 116 members, with 36 of them actively involved in the development of activities in five committees covering all the target groups: the Students Committee, the Research Committee, the Community Committee, the Outreach Committee and the Communication Team. The pool of volunteers range from bachelor students to postdoctoral researchers, and the board of directors is composed of 9 people from master to PhD researcher level.

If you wish to involve in the activation of the nanoscience and nanotechnology cluster in the region of Catalonia, do consider contacting us through our website at [www.scn2.cat/la-societat/participa/](http://www.scn2.cat/la-societat/participa/)

Thank you for your interest,

And **enjoy our online seminar!**



# Organizers



**MSc Maria Tenorio Tuñas**  
PhD Researcher  
*Catalan Institute for Nanoscience and  
Nanotechnology - CERCA*



Graduated in Nanoscience and Nanotechnology at the Autonomous University of Barcelona and Master of Science in Nanophysics at the University of Grenoble Alps (France). PhD candidate in the Catalan Institute of Nanoscience and Nanotechnology. Working in the synthesis of graphene nanoarchitectures and their study with STM. At SCN<sup>2</sup> she is the director of the Research Committee.



**MSc Elena Fernández Castañer**  
PhD Researcher  
*Institute of Biomedical Research August Pi  
i Sunyer - Fundació Clínica*



Graduated in Nanoscience and Nanotechnology at the Autonomous University of Barcelona. Master of Science in Translational Medicine by the University of Barcelona. PhD researcher at Institut d'Investigacions Biomèdiques August Pi i Sunyer (Barcelona), PhD programme in Medicine and Translational Research, University of Barcelona. Codirector of the Research Committee of SCN<sup>2</sup>.



**MSc Marta Delgà Fernández**  
PhD Researcher  
*Catalan Institute for Nanoscience and  
Nanotechnology - CERCA*



Graduated in Chemistry at the University of Barcelona. Master of Science in Applied Materials Chemistry at the University of Barcelona. PhD student at Catalan Institute of Nanoscience and Nanotechnology following the PhD programme in Material Science of the Autonomous University of Barcelona. Collaborator of the Research Committee at SCN<sup>2</sup>.



**MSc Cristina Martínez Oliver**  
PhD Researcher  
*School of Engineering, University of  
Glasgow*



Bachelor of Science in Nanoscience and Nanotechnology by the Autonomous University of Barcelona (Spain). Master of Science in Functionalized Advanced Materials and Engineering by the universities of Grenoble INP (France) and Technische Universität Darmstadt (Germany). Currently a PhD student in the Marie Skłodowska-Curie Action DESIGN-EID in the University of Glasgow (UK) and IBM research Zurich (Switzerland).



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