

Post-doctoral researcher at the Nanobioelec Research Group (PD GG)

Introduction to the vacant position:

The Nanobioelec Group (www.ibecbarcelona.eu/nanobioelec) is looking for a Post-doctoral Researcher to work in the development of a novel all-protein electronics technology (PROTEONICS) within the framework of the EIC-Pathfinder European Project PRINGLE (<https://www.pringle-project.eu/>). The objective of the project is to design a new class of protein materials with tuned electronic properties and test their integration into electronic devices, that will provide unrivalled biodegradable, biocompatible and biosensing functionality.

Specifically, the post-doctoral researcher is expected to developed novel methods to probe the mechanical and electrical properties of conducting nanofibers from cable bacteria by means of Scanning Probe Microscopy, and to contribute developing novel bioelectronic devices based on these novel biomaterials.

More information on the properties of conducting nanofibers from cable bacteria can be found in:

-H. T. S. Boschker et al., Efficient long-range conduction in cable bacteria through nickel protein wires. *Nature Communications* 12, 3996 (2021).

Requirements for candidates:

Essential:

- PhD degree in Materials Science/Physics/Engineering/Microbiology and related fields.
- Self-critical, capacity to learn and bring knowledge
- Competencies and skills: Communication, Teamwork, Proactivity, Commitment, Collegiality, Integrity, Critical and Analytical thinking
- High level of English

Advantageous:

- Experience in Scanning Probe Microscopies is a plus.
- Experience in Bioelectronic devices is a plus.

We Offer:

- Number of available positions: 1
- Starting date: From 1st March 2024
- Working conditions:
 - Full time 2-year contract
 - Very attractive salary
 - Measures to reconcile work and family life (maternity and paternity leave, flexible schedule working hours, 23 working days of paid holidays, 9 leave days for personal matters, among others).
- IBEC ensures equality of access to professional development opportunities irrespective of employment status, length at IBEC or other factors. The IBEC's yearly training catalogue offers a wide range of training in technical and transferable skills including mobility grants and a Mentoring programme for predoctoral and postdoctoral researchers.



- Stimulating, interdisciplinary research and high-quality international scientific environment.
- Induction programme to facilitate incorporation at IBEC and additional support is provided for foreigners to obtain Visa-working permit and to install in Barcelona.

How to apply:

Until 15th of February an online application form is available through IBEC dedicated site:

<https://careers.ibecbarcelona.eu/>

Only those applications submitted before the deadline will be evaluated.

Reference: PD_GG

If you have any further question regarding your application, please contact us at jobs@ibecbarcelona.eu

Principles of the selection process:

IBEC is committed to the principles of the Code of Conduct for the Recruitment of Researchers of the European Commission and the Open, Transparent and Merit based Recruitment principles (OTM-R).

IBEC's Commitment on equal opportunity:

Our strength and excellence as an international transdisciplinary Research Institute are based on diversity. Being an equal opportunity employer, we are committed to diversity and inclusion, so that we support employees irrespective of their gender, nationality, religion, disabilities, age, sexual identity or cultural and socioeconomic background."

Protection of personal data:

IBEC guarantees that candidates' personal data are processed in accordance with the requirements of the EU General Data Protection Regulation (GDPR) and Law 3/2018 on Data Protection.

Personal data will be processed solely for the purposes of the selection process.

Who we are?

The Institute for Bioengineering of Catalonia, IBEC is an interdisciplinary research center focused on Bioengineering and Nanomedicine based in Barcelona. IBEC is one of the top research institutions named as a Severo Ochoa Research Centre by the Ministry of Science, Universities and Innovation, which recognizes excellence at the highest international level in terms of research, training, human resources, outreach and technology transfer.

IBEC's mission is to develop international high-quality interdisciplinary research that, while creating knowledge, contributes to making a better quality of life, improving health and creating wealth. A close link with key universities, reference hospitals and corporations, are assets that facilitate achieving the mission.

IBEC was established in 2005 by the Generalitat de Catalunya (Autonomous Government of Catalonia), the University of Barcelona (UB) and the Technical University of Catalonia (UPC).

IBEC is located within the Barcelona Science Park and is managing 3.800 square meters facilities, with an annual budget of 13 Mio€; 3.800 square meters of facilities; 21 research groups



and a team of researchers and support services of 350 people from 30 different countries.
www.ibecbarcelona.eu



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