



 DONATE

20
YEARS **IBEC**^R

Institute for Bioengineering of Catalonia



Jobs February 20, 2026

Postdoctoral Researcher at the Nanoprobes & Nanoswitches Research Group

Introduction to the vacant position:

The [Nanoprobes & Nanoswitches Group](#) is looking for a postdoctoral researcher to develop a basic project to investigate quantum phenomena in photosynthetic electron transport chains. The contract will be within the framework of ongoing projects of the laboratory, whose objectives include both fundamental investigation of photoelectron transport and the development of novel instrumentation, biosensors, and biomimetic devices.

Main tasks and responsibilities:

- Perform experiments in electrochemistry and laser spectroscopy of redox proteins and photosynthetic complexes (photochronoamperometry, voltammetry, impedance spectroscopy, photoelectrochemical two-dimensional electron spectroscopy)

- Improve and develop new instruments for electrochemical and laser spectroscopy measurements.
- Carry out structure-based computational design and engineering of proteins and complexes and their molecular interactions to interpret the experimental results.

Requirements for candidates:

- Ph.D. in chemistry, physics or equivalent
- Experience in protein design and engineering, purification, and characterization
- Experience in molecular functionalization of surfaces
- Experience in ultrafast laser spectroscopy
- Computational programming for data analysis and chemical analysis.
- Experience in STM, AFM, or other scanning probe techniques is a plus
- Experience in other chemical characterization methods is a plus.
- Competencies and skills: Communication, Teamwork and collaboration, Commitment, Proactivity, Integrity, Critical and Analytical thinking
- High level of English

We Offer:

- Number of available positions: 1
- Starting date: 16/03/2026

- Working conditions:
- Full time, flexible schedule working hours, teleworking, 23 working days of paid holidays, 9 leave days for personal matters, among others). Measures to reconcile work and family life (maternity and paternity leave.
- Full time 1-year contract
- Competitive salary according to experience.
- 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.
- 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 March 5th, 2026 an [online application form](https://careers.ibecbarcelona.eu/) is available through IBEC dedicated site: <https://careers.ibecbarcelona.eu/>

Only those applications submitted before the deadline will be evaluated.

Reference: PR-PG

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) <https://ibecbarcelona.eu/careers-at-ibec/jobs/>

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".

Visit our devoted webpage on [Equality, Diversity and Inclusion](#).

IBEC actively looks for female candidates for Senior positions ensuring that at least 40% of shortlisted applicants invited to interview have to be women with comparable level of CVs as the male candidates. At the end of the evaluation process, in case of equal merit, priority will be given to female candidates.

For candidates with children that come from outside Barcelona, we offer babysitting services during the interview, so you don't have to worry about anything else than doing a good interview. Contact us if you are interested in this service.

IBEC, as a signatory of the San Francisco Declaration on Research Assessment (DORA), will consider, especially for early-stage investigators, much more the scientific content of research outputs, than publication metrics or the identity of the journal in which it were published.

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 22 Mio€; 4.150 square meters of facilities; 21 research groups and a team of researchers and support services of 400 people from 35 different countries. www.ibecbarcelona.eu



HR EXCELLENCE IN RESEARCH

◆ Tags

IBEC , Jobs PGorostiza

> [Predoctoral researcher at the Nanoprobes and Nanoswitches Research Group](#)