Post-doctoral Scientist, Vaccines Bioprocess Engineering

Ref. VaccinesBioprocessEng_25

iBET is seeking a highly motivated Post-doctoral Scientist to join our Vaccines Bioprocess Engineering team.

Here includes a short description of the role. The reference of the project funding this position must be mentioned.

Why iBET?

iBET is a private, not-for-profit R&D institute working at the interface of engineering and biology to advance the development of New Biopharmaceuticals and to create sustainable solutions for Food and Health.

Our mission is to provide biotechnology solutions globally by advancing Scientific Research and Technological Development. Working at iBET is to be driven by ambition, commitment, integrity, and a sense of innovation to search for knowledge, creating value to our partners and stakeholders.

Our core areas are Biopharma and Sustainability for Food & Health. We develop processes and platforms for advanced gene and cell therapies, vaccines, and clinically relevant proteins, from R&D to Analytics and Tech-Transfer to GMP. We also explore innovative solutions to detect food fraud, water and food contaminations, and the identification of new bioactive food supplements.

We offer state-of-the-art R&D infrastructure for cellular bioengineering and biology research, including flow cytometry, cell sorting and microscopy, in addition to a Mass Spectrometry Unit and a Late-Stage R&D and Bioproduction Unit. With our new building, iBET Biofarma, we are expanding our research infrastructure with 30 new labs, including one BSL3, which will accommodate up to 100 new researchers.

Located in the coastal town of Oeiras, iBET is conveniently situated within easy reach of Lisbon and Cascais. More information about iBET and its activities can be found on our website www.ibet.pt.

Tasks and responsibilities:

- Production and purification of recombinant proteins and nanoparticles in insect and/or mammalian cells;
- Development of strategies to optimize production and purification processes of recombinant proteins and nanoparticles;
- Design and/or optimization of bioconjugation strategies for coupling recombinant proteins to nanoparticles;
- Training of research fellows, technicians and scientists in the bioconjugation strategies developed and/or implemented;
- Biophysical, biochemical and functional characterization of recombinant proteins, nanoparticles and/or functionalized nanoparticles;
- Data analysis and visualization using statistical tools;
- Writing scientific reports and/or manuscripts.

Admission Requirements:

Education and Experience

- Any national, foreigner and stateless candidate holding a PhD Degree in Biological, Chemical or Biomedical Engineering, Biotechnology, Biology, Biochemistry, or relevant scientific field; solid knowledge in bioprocess engineering, bioconjugation, or equivalent areas.

Technical Skills

- Experience in animal cell culture, preferably insect cells (e.g. Sf-9 and High Five) and mammalian cells (e.g. HEK293 and CHO);
- Experience in cell culture, preferably in stirred systems (e.g. bioreactors);
- Experience in production of recombinant proteins and nanoparticles;
- Experience in purification of recombinant proteins and nanoparticles, preferably using chromatography techniques (e.g. affinity, ion exchange);
- Experience in bioconjugation techniques for coupling recombinant proteins to nanoparticles;
- Experience in analytical methods, preferably SDS-PAGE, Western blot, MTT, PCR, ELISA, HPLC-SEC, DLS, and mass photometry;
- Experience in data analysis and visualization using statistical tools;
- Experience in method development and technical training;
- Demonstrated scientific maturity through publications in peer-reviewed journals in relevant scientific areas;
- International research experience;
- Proficiency in spoken and written English.

Soft Skills

- Goal-driven profile;
- Adaptability in fast-paced environments, with a proven ability to learn and train;
- Strong communication and organization skills;
- Motivation to work both independently and as part of a team;
- Initiative and creativity to generate new scientific ideas in research or development activities.

What we offer:

We offer an opportunity to work in an open and collaborative environment with a highly qualified, dynamic, and project-driven team.
iBET is heavily committed to enabling scientists and training students for excellence, encouraging, and fostering collaboration and innovation.
At iBET you will meet a young and international community with low average age, very gender-balanced, of around 255 qualified professionals, including more than 100 PhDs, in addition to the student community.
We offer initial and continuous training according to the level of career development, including scientific and soft skills, and an attractive salary package in line with the best international practices.
Included in our health and wellbeing promotion program, iBET Move promotes physical and mental activity to all iBET employees.

How to apply:

Does this sound like the right challenge for you? Apply now with your detailed CV and motivation letter to jobs@ibet.pt, referring to the job reference **VaccinesBioprocessEng_25** in the subject of the email. Application deadline: 18/09/2025

Applications will be evaluated based on CV merits, motivation, and experience according to the profile described in this announcement.

Expected Starting Date – 01/10/2025

Selection criteria - The selection of candidates will be carried out by curriculum assessment (CV) in accordance with the requirements stated in the present announcement. Interviews will be conducted only when necessary to distinguish candidates with similar curriculum classifications. Applicants who do not meet the above admission requirements will not be eligible.

Non-discrimination and equal access policy:

iBET actively promotes a policy of non-discrimination and equal access, so that no candidate can be privileged, benefited, harmed or deprived of any right, on basis of age, sex, sexual orientation, marital status, family status, economic situation, education, social origin or condition, genetic heritage, reduced working capacity, disability, chronic illness, nationality, race, territory of origin, language, religion, political or ideological convictions, and trade union membership.

General Data Protection Regulation (GDPR):

With the entry into force of Regulation (EU) 2016/679 of the European Parliament and of the Council of 26 April 2016, commonly known as the General Data Protection Regulation (GDPR) and in order to ensure a fair and transparent treatment of the data subject, iBET informs that by applying for this announcement, you are authorizing iBET to collect and process your personal data deemed necessary and relevant to this recruitment process. By applying, and if you are not selected in this application process, you grant authorization for your data to be shared with other departments of iBET, within the scope of other recruitment processes in which you are eligible and your CV fits.