

## Spontaneous Applications

The BIOREF Association - Collaborative Laboratory for Biorefineries invites highly qualified professionals to submit spontaneous applications for future hiring opportunities in the field of Research and Development.

If you are looking to join a dynamic and innovative team committed to technological and sustainable advancements, this may be the ideal opportunity for you.

### 1. Admission Requirements:

Candidates must hold a PhD degree in chemical engineering, mechanical engineering, biological engineering, or related fields. Proficiency in spoken and written English is a mandatory requirement for admission. Candidates must have proven R&D experience in at least one of the following specific areas:

- Development of biological and/or thermochemical technologies for the use of CO<sub>2</sub> and/or CO
- Development of modeling or numerical simulation tools incorporating machine learning or AI
- Experience with anaerobic digestion reactors
- Experience with pilot systems for gasification and gas cleaning
- Experience with Fischer-Tropsch reactors for syngas conversion
- Experience with dark fermentation of syngas or biogas
- Development of gas purification systems, including PSA, membranes, or cryogenic processes
- Experience in studies for the production of synthetic fuels (e-methanol, e-ammonia, e-methane)
- Experience in writing research proposals as a principal investigator for funding under EU framework programs, national programs, and/or industrial projects

### 2. Mandatory Requirements:

- Fluency in Portuguese
- Advanced proficiency in English
- Proficiency in Microsoft Office

If you are interested in joining us in developing innovative solutions for a more sustainable future, please send your application to [rh@bioref-colab.pt](mailto:rh@bioref-colab.pt), including the following documents:

- a) Motivation letter
- b) Detailed CV, including a copy of degree certificates and other relevant supporting documents
- c) Recommendation letter (optional)

Applications received will be analyzed according to the institution's strategic needs, ensuring an alignment between the candidates' profiles and the technical and scientific challenges of our projects.