

Research assistant - Peptide and protein therapeutics

We are looking for a highly motivated candidate willing to contribute to the research we pursue with our young and dynamic ChemSynBio team at IQS Barcelona!

Group

At ChemSynBio (www.chemsynbio.iqs.edu), we harness chemical and synthetic biology to create biotherapeutic and biomedical tools, especially to treat brain diseases and to understand brain transport. We aim to conduct groundbreaking research and to grow together!

Project

In our group we aim to generate highly selective and efficacious **peptide and protein therapeutics by combining rational design, directed evolution, and bioinformatics**. In this position, you will **assist different projects** involving the development of biotherapeutics. In the main project, you will contribute to developing peptide-based **extracellular targeted protein degraders**. In this position, you will apply phage display, next generation sequencing and bioinformatics to guide the selection of new degraders. You will participate in the production of the selected candidates using a peptide synthesizer and testing them in several rounds of optimization. You will also contribute to the development of **proteins with activity on demand** using protein modelling and to the generation of **bioconjugates with the ability to cross the blood-brain barrier**.

Tasks

- Contribution to **research excellence** at all stages: literature review, experimental design, experimentation, data analysis, and proposal of new research directions.
- **Collaboration** with other researchers and contribution to an **inspiring atmosphere**.
- **Presentation** of results and contribution to preparing reports and scientific **publications**.
- Engagement in **laboratory management** and **team activities**.

Profile

- Requirement: **master's degree**. Background in chemistry, biotechnology or related.
- Valuable experience: **bioinformatics**, protein production, chemical synthesis
- **Strong motivation, proactivity, and creativity**.
- **Excellent teamwork** abilities.
- **Excellent communication** skills and **fluency in English**.

Conditions

- **Two years** of funding with the possibility of an extension **or transition into PhD** position.
- **Room for creativity, mentorship & team support**.
- Proposed starting date: **early 2025**

Applications are welcome until December 31st or until the candidate is selected

- To apply, please, click on the following link:
<https://cezanneondemand.interviewweb.it/iqs/jobs/research-assistant-peptide-and-protein-therapeutics-48697/en/>
- It is necessary for the application:
 - **Motivation letter** explaining why you would be a good fit for the position and our team.
 - **Curriculum Vitae**
 - Master's and Bachelor's **academic records**
 - Contact details of **two referees**. Reference letters will be valued but not compulsory