One fellowship available the CRG Proteomics Unit for the academic year 2026/2027:

The CRG offers a fellowship opportunity for a Master's student to join the CRG Proteomics Unit.

The deadline is 30th of September.

Please remember that the candidate **must be enrolled in an official MSc programme** at a university, as an agreement will have to be signed between the candidate's University and the CRG.

Fellowships conditions

- **Stipend**: 700€/month/gross – up to 4 months
- **Travel support**: Return ticket (up to 1000€/non European flights / up to 400€ for European flights)
- **Eligibility**: The fellowship can only be given to new recruits, not students already at the CRG
- **Timing**: The fellowship needs to be given within the 2026/2027 academic year

Application Procedure:

Read carefully the project below and, if interested, contact the project supervisor Hiba Salim and group leader Eduard Sabidó. Please include the following documents in your application:

- Motivation letter
- Curriculum Vitae (CV)
- Reference letter
- University transcripts

Proteomics -Sabido Core technologies

PROJECT DESCRIPTION -Development of robust LC-MS/MS workflows for proteoform characterization in liquid biopsies

Proteomics | LC-MS/MS | Mass spectrometry | Method development | Sample preparation | Liquid biological samples | Analytical workflow | Protein analysis

Mass spectrometry-based proteomics has become an indispensable tool for the comprehensive characterization of proteins in biological systems, providing valuable insights into cellular processes, disease mechanisms, and biomarker discovery. However, obtaining high-quality and reproducible proteomic data from liquid biological samples remains technically challenging due to sample complexity and variability. Robust sample preparation

and optimized analytical workflows are therefore essential to maximize proteome coverage, reproducibility, and quantitative performance.

The aim of this project is to develop and optimize LC-MS/MS-based workflows for the proteomic analysis of liquid biopsies. The student will evaluate key steps in the experimental workflow, including sample preparation, protein digestion, peptide clean-up, and analytical performance, with the objective of establishing a robust and reproducible protocol suitable to perform proteoform characterization in liquid biopsies. Workflow performance will be assessed using quality metrics such as protein and peptide identification rates, reproducibility, and quantitative consistency.

Throughout the project, the student will gain practical experience in modern proteomics methodologies, including sample preparation, liquid chromatography-tandem mass spectrometry (LC-MS/MS), experimental design, quality control, and data analysis. The optimized workflow developed during this project will contribute to improving proteomic analyses performed within the CRG Proteomics Unit and will provide a valuable methodological framework for future biomedical research projects.

WHO ARE WE LOOKING FOR?

The project is suitable for a Master's student with a background in Biochemistry, Biotechnology, Molecular Biology, Biomedical Sciences, or a related field. Basic laboratory experience in molecular biology or biochemistry is desirable, while prior experience in proteomics or mass spectrometry is not required. The student should be motivated to learn new experimental techniques, have good organizational and analytical skills, and be interested in applying proteomics technologies to biomedical research.

HOW TO APPLY

Send applications documents to both the **PI (Eduard Sabidó** eduard.sabido@crg.eu **) and Hiba Salim** hiba.salim@crg.eu**)**