

## PhD Position in mass spectrometry and cancer biology

[Full time position](#)

**IRIBHM J.E. Dumont**

### About the laboratory and environment

The research unit on kinase addiction and BruProMS (ULB/Erasme Mass Spectrometry and Proteomics Platform) are based at the IRIBHM J.E. Dumont, at the Université Libre de Bruxelles (ULB).

Our laboratory focuses its research on protein kinase biology, proteomics, phosphoproteomics, with a particular expertise in cell cycle kinases (CDK4, Greatwall/MASTL) and their implication on cancer. The research group is associated with BruProMS, ULB's mass spectrometry and proteomics platform, and partner of the BRUXSOMICS project (FEDER Brussels), an inter-university ULB-VUB multi-omics platform using mass spectrometry.

### Positions summary

We are seeking a motivated PhD student to undertake a doctoral project at the interface of chemical proteomics, mass spectrometry-based (phospho)proteomics, cell biology, and bioinformatics.

The candidate will work on a project aiming at developing the necessary tools to measure kinase activity profiles directly from clinical samples and to build a functional atlas of poorly characterized kinases, with the long-term ambition of enabling precision medicine by correlating tumor kinase activity with therapeutic response to kinase inhibitors.

The successful candidate will:

- Develop and lead an independent research project aligned with the lab's focus;
- Contribute to collaborative data analyses supporting ongoing studies of the Mass Spectrometry and Proteomics Platform;

### Candidate profile

The ideal candidate should hold, or be expecting to receive within 2025–2026, **Master degree in biomedical sciences, biochemistry, cell biology, bio-engineering, or related field.**

The following qualifications will be considered:

- Documented laboratory experience in cell biology and/or molecular biology
- Interest or prior exposure to mass spectrometry, proteomics, or phosphoproteomics is a strong asset

- Basic knowledge and skills in bioinformatics (R, Python, or Unix) are an advantage
- A willingness to learn new tools and methodologies and adapt to new challenges
- Excellent oral and written communication skills in English
- Ability to work independently and as part of a multidisciplinary team
- Strong motivation, intellectual curiosity, and a proactive attitude
- Previous research contributions leading to a published or submitted study will be considered a significant advantage

## What we offer

- A first year of PhD fellowship starting when the position is filled.
- A multidisciplinary and technically rich research environment at the interface of proteomics, cell biology, chemistry, and bioinformatics
- Access to state-of-the-art mass spectrometry infrastructure (BruProMS platform, BRUXSOMICS)
- Active support and mentoring for applying to personal fellowship funding (FRIA, FNRS aspirant mandate, Télévie...) during the PhD
- Integration within a stimulating scientific network, including the FNRS Thematic Doctoral School in Experimental Cancerology (EDT)

## How to apply

Interested candidates should send their application by e-mail to Prof. Xavier Bisteau at: [xavier.bisteau@ulb.be](mailto:xavier.bisteau@ulb.be)

The application should include:

- A cover letter outlining your motivation and relevant skills
- A detailed Curriculum Vitae
- Contact details for two references (names and e-mail addresses)

## Deadline

Applications will be reviewed on a rolling basis until the position is filled. **Early applications are strongly encouraged, as the position is directly available.**