

✿ **Exciting Opportunity!** ✿

The Proteomics and Microbiology group (ProtMic – [Prof. R. Wattiez](#)) of the University of Mons (Belgium), initiated in 2007, focuses on functional proteomics and metabolism research. Actually, the ProtMic group members consists of 2 professors, 1 assistant professor, 5 postdocs, 13 Ph.D. students and 3 technicians. The Bioprofiling platform is a core facility created by ProtMic between UMONS (Université de Mons) and ULB (Université Libre de Bruxelles). It assists academic researchers in their projects and to support the fast-growing surrounding biotech and life sciences ecosystem.

Our multidisciplinary teams provide knowhow in functional proteomics. Projects, in which we are involved in, are interdisciplinary, but mainly oriented towards life, environmental sciences and agrofoods. Our teams bring their state-of-the-art equipment as well as their expertise while developing new methodologies and research projects.

***Job opportunities :***

We are currently **recruiting 4 technical and scientific professionals with varied backgrounds** in Proteomics, Bioinformatic and Mass spectrometry. In these new roles, your collaborative mindset is as valued as your scientific expertise.

**Job description 1 : Post-Doc research position** in the field of bioinformatic in the proteomic area

**Job description 2 : Post-Doc research position - Metaproteomic Research Specialist**

**Job description 3 : Post-Doc research position - Proteomic Research Specialist**

**Job description 4 : Technician research position – Microbial Proteomics**

**Job description 1 : Post-Doc research position in the field of bioinformatic in the proteomic area**

We are seeking a highly motivated and skilled **Bioinformatic Scientist** to join our growing team. This person will be a key player in our interdisciplinary team and will play a crucial role in advancing our technological capabilities as well as contributing to our functional proteomic and biomarker efforts. The ideal candidate will have a strong background in bioinformatics in addition of a passion for both biology and software engineering.

**Responsibilities**

- Develop bioinformatics pipelines and tools for novel and diverse data domains especially from mass spectrometry data associated to proteomics.
- Integration of new developments in the context of research project in systems biology applied to immunology, aimed at integrating multi-omics data to study responses to vaccines and respiratory pathogenic viruses.
- Maintain software solutions for data integration, visualization, and analysis.
- Work closely with cross-functional teams, including biologists, chemists, and engineers, to understand project goals and contribute to multidisciplinary research projects.
- Implement data storage and retrieval solutions, ensuring data integrity and accessibility.

**Requirements**

- PhD or equivalent experience in Bioinformatics, Computational Biology, Computer Science, or a related field.
- Proven experience in bioinformatic research working with diverse data types.
- Strong programming skills in Python and proficiency in relevant bioinformatics and data engineering tools.
- Experience with version control systems and a commitment to software best practices.
- Excellent communication skills and the ability to collaborate across diverse disciplines.
- Excellent oral and written communication skills in English

**Also a plus**

- Domain knowledge in mass spectrometry associated to proteomics
- Machine learning experience
- Image processing experience

**Offer details**

Evaluation of applications will be based on scientific excellence. Successful candidates will be offered a full-time temporary position of 2 years, with possibility of extension.

Salary depends on seniority (6 years max.) and are in accordance with the internal University agreement. The Post-Doc is expected to start in April-June 2024.

Interested candidates are encouraged to submit their motivation letter and their curriculum vitae to **[ruddy.wattiez@umons.ac.be](mailto:ruddy.wattiez@umons.ac.be)**. The deadline for the submission is **30<sup>th</sup> March 2024**.

Short-listed candidates will be contacted in April 2024 for on-campus interviews. The ProtMic laboratory values diverse perspectives and is committed to continually supporting, promoting, and building an inclusive and culturally diverse high-tech campus environment.

**Employment Type** : Full-time. **Address** : UMONS, 6 av. Champs de Mars 7000 Mons Belgium.  
<https://web.umons.ac.be/en/>

**Job description 2 : Post-Doc research position -Metaproteomics Research Specialist**

We are seeking a highly motivated and skilled **Metaproteomics Research Scientist** to join our growing team. This person will be a key player in our interdisciplinary team and will play a crucial role in new project. The ideal candidate will have a strong background in metaproteomic spectrometry and biology in addition of the willingness to work in an interdisciplinary environment.

**Responsibilities**

- Responsible for the coordination and advancement of the FoodBooster Project. The researcher will be involved to the characterization of the N-glycoproteome from microbial communities and the functional microbial characterization by proteomics based on mass spectrometry in the context of the development of new probiotic.
- Supervising a dedicated team of technicians and technologists
- Responsibility for metaproteomics analysis of Microbiomes and the characterization of their N-glycoproteome
- Responsibility for data analysis and data management
- Contribution to scientific publications and grant applications
- Diligent project management, administration and reporting
- Maintaining and developing scientific excellence in Metaproteomic analyses

**Requirements**

- PhD in biochemistry or chemistry
- Knowledge of biological mass spectrometry
- Abilities to design, develop and publish methods addressing current needs in (meta)proteomics
- Extensive experience documented by first and/or last author publications
- Excellent understanding of analytical techniques such as HPLC and mass spectrometry
- Strong computational skills
- Thorough understanding of protein chemistry and/or biochemistry
- High level of organization and efficiency
- Excellent oral and written communication skills in English

**Offer details**

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### **Job description 3 : Post-Doc research position -Proteomic Research Specialist**

We are seeking a highly motivated and skilled **Proteomics Research Scientist** to join our growing team. This person will be a key player in our interdisciplinary team and will play a crucial role in new project, especially in the de novo sequencing area. The ideal candidate will have a strong background in proteomic – post-translational analysis and de novo full-length protein sequencing approach using mass spectrometry in addition of the willingness to work in an interdisciplinary environment..

#### **Responsibilities**

- Responsible for the coordination and advancement of the Epi-Shield Project: this interuniversity project aimed at accelerating the creation of hyper-diversified anti-infective solutions and their low-cost manufacture. The researcher will be involved in high-resolution mapping of targeted serum antibodies
- Supervising a dedicated team of technicians
- Responsibility for post-translational analysis and de novo full-length protein sequencing
- Responsibility for data analysis and data management
- Contribution to scientific publications and grant applications
- Diligent project management, administration and reporting
- Maintaining and developing scientific excellence in de novo sequencing using mass spectrometry

#### **Requirements**

- PhD in biochemistry or chemistry
- Knowledge of biological mass spectrometry
- Abilities to design, develop and publish methods addressing current needs in metabolomics and proteomic analyses
- Extensive experience documented by first and/or last author publications
- Excellent understanding of analytical techniques such as HPLC and mass spectrometry
- Strong computational skills
- Thorough understanding of protein chemistry and/or biochemistry
- High level of organization and efficiency
- Excellent oral and written communication skills in English

#### **Offer details**

Evaluation of applications will be based on scientific excellence. Successful candidates will be offered a full-time temporary position of 2 years, with possibility of extension. Salary depends on seniority (6 years max.) and are in accordance with the internal University agreement. The Post-Doc is expected to start in April-June 2024.

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#### **Job description 4 : Technician research position -Microbial Proteomics**

We are seeking a highly motivated and skilled **technician research position** to join our growing team. This person will be a key player in our interdisciplinary team and will play a crucial role in new project. **We are looking for** lab technician to work mainly in sample preparation and experimental analysis with chromatography and mass spectrometry.

#### **Responsibilities**

- Sample preparation
- Analysis of biological samples by chromatography and mass spectrometry
- Analytical data processing with commercial and R language programs
- Preparation of reports
- Participation to the presentation and discussion of results

#### **Requirements**

We are looking for candidates that meet the following criteria:

- Bachelor's degree in Chemistry-Biochemistry, Production Technology, Chemical Engineering, or equivalent
- English language proficiency at essential level (both oral and written)
- Knowledge of additional languages is a plus
- Strong focus on safety
- Strong observation and reporting/communication skills
- Team player while being able to perform independently
- Being flexible while willing to adhere to procedures and understand their importance in large organizations
- Being proactive and taking initiative
- Passionate to learn

#### **Offer details**

Evaluation of applications will be based on scientific excellence. Successful candidates will be offered a full-time temporary position of 2 years.

Salary depends on seniority (6 years max.) and are in accordance with the internal University agreement. The technician is expected to start in April-June 2024.

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