

The Bursar of the Faculty of Science, Masaryk University announces an open competition for the

Postdoc position in chemical exposure profiling & metabolomics

Workplace: RECETOX, Faculty of Science, Masaryk University in Brno, Czech Republic

Working Hours: full time, 40 hours per week

Expected Start Date: as soon as possible, or negotiable with respect to immigration timelines for non-EU candidates

Number of Open Positions: 1

Application Deadline: 31 August 2021 or until the position is filled

EU Researcher Profile: R2

RECETOX focuses on interdisciplinary research and education in the area of Environment & Health, studying toxic compounds and their behavior, transport & bioaccumulation to evaluate environmental effects, assess the exposure and health risks to humans, and develop technologies and biotechnologies to break them down. <https://www.recetox.muni.cz/en>

Research topic and job description

We are seeking talented post-doctoral fellow applications for positions focused on the measurement of small molecules via liquid chromatography (LC) and gas chromatography (GC), coupled to high-resolution mass spectrometry (HRMS).

The successful candidate will have opportunity to support ongoing research projects, assist the establishment of infrastructure resources and the freedom to propose and develop own research interests towards understanding the influence of chemical exposures on health.

The group currently operate a UHPLC-Orbitrap (Thermo Orbitrap Fusion Tribrid), a GC-Orbitrap (Thermo GC Q-Exactive) and are expanding capacity in near future. The research benefits from close internal (e.g. RECETOX Biobank, Institute of Computer Science) and international collaboration.

Postdoctoral position is offered within CETOCOEN Plus project available until end of 2022 with a possibility for prolongation to longer-term position.

Group details

The group led by Dr Elliott J Price is developing analytical workflows for exposure and effect biomarker discovery within the Environmental Chemistry and Modelling research program co-ordinated by Prof Jana Klánová. The group focus upon the population scale profiling of exogenous and endogenous chemicals in human biospecimen.

Inquiries about the position can be sent to Dr Elliott J Price, elliott.price@recetox.muni.cz
<https://www.recetox.muni.cz/en/research/principal-investigators/dr-elliott-price>

Responsibilities may include:

- Development of LC-HRMS and/or GC-HRMS methods and analytical workflows including QA/QC procedures
- Biological samples preparation and analysis for the measurement of exposure and disease biomarkers
- Operating and maintaining GC and/or LC instrumentation
- Performing data analysis and interpretation in collaboration with bioinformatics, biostatistics and epidemiology groups
- Preparation of manuscripts for submission to peer-reviewed journals

Candidate profile and experience

Candidate should have

1. Ph.D. in metabolomics, proteomics, analytical chemistry, biochemistry, mass spectrometry, environmental chemistry, or equivalent
2. Demonstrable experience with full-scan/untargeted mass spectrometry
3. Extensive knowledge of sample preparation for chemical analysis of complex matrices
4. Understanding of QA/QC requirements and best practice
5. Bioinformatics skills or competence with data processing tools (e.g. MS-DIAL, MZmine 2) is appreciated

Candidate should be

- An enthusiastic and ambitious scientist who can bring in new ideas
- A critical thinker that is team-oriented
- An effective communicator

We Offer

- Vibrant working environment and access to state-of-the-art infrastructure
- Fully equipped modern laboratories
- The dynamic group surrounded by an international team of experts
- Involvement in national and international projects
- Employee benefits: 6 weeks of paid leave per year, health insurance, pension insurance contribution, meal vouchers, discounted language courses, etc.
- Support with your relocation
- Brno provides a high quality of life; it is a university city with lots of cultures and very family-friendly <https://brnoregion.com/work>

Application Process

Applicants should provide the following information in English:

- CV (European standard recommended) including summary of publications and research outputs
- Motivation letter describing candidate's research interest and experience
- Names and contact details of at least 2 professional referees
- Ph.D. certification

The deadline for applications is on 31 August 2020 or until the position is filled. A review of applications will run continuously as they are received and until the position is filled. The short-listed applicants complying with the requirements will be invited for personal or Teams interviews.

The application shall be **submitted online via an e-application** (Please, use the link in the e-Application section here <https://www.muni.cz/en/about-us/careers/vacancies/64537>). After submitting your application successfully, you will receive an automatic confirmation email from jobs.muni.cz.

Contact: hr-rcx@recetox.muni.cz, Barbora Chlubná.

We are looking forward to hearing from you!

Selection Process

Received applications will be considered carefully in line with the [principles of the EU Charter and Code for Researchers](#). Selection criteria: (i) meeting qualification requirements described above, (ii) all required documents provided. The Faculty Recruitment Policy (OTM-R) can be seen [here](#).

Faculty of Science, Masaryk University, is an equal opportunity employer. We support diversity and are committed to creating an inclusive environment for all employees.

More about

[Masaryk University](#) is the second-largest university in the Czech Republic with nine faculties, more than 5000 staff, and more than 30 000 students. As a comprehensive research-intensive university with a strong international standing, our mission is to pursue top-quality research and education.

[Faculty of Science MU](#), a proud holder of the [HR Excellence in Research Award](#) by the European Commission, is a research-oriented faculty, offering university education (Bachelor's, Master's, and Doctoral degree programs) closely linked to both primary and applied research and high school teaching of the following sciences: Mathematics, Physics, Chemistry, Biology, and Earth sciences. We are the most productive scientific unit of Masaryk University, generating around 40 % of MU research results.

[Brno](#), the capital of the South Moravian Region, situated approximately halfway between Prague and Vienna, it is the largest university town in the Czech Republic and a modern metropolis with a long history and culture. Recognizing the university's significant role in making Brno one of the most innovative cities in the CEE region, it continuously supports, together with the South Moravian Region, the local scientific, start-up, and high-tech communities.

Visit our [Career page](#).