

Masaryk University
Faculty of Science
JOB OPENING

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

Software Developer (R/Python/Galaxy)

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

Working Hours: full time, 40 hours per week / part time, 20 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: 2

Application Deadline: March 31, 2022, or until the position is filled

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>

Job description

We seek a motivated SW developer with solid technological background for the development of mass spectrometry data processing pipelines, tools and workflows. The overarching goal is to develop a suite of tools inside the Galaxy framework to process mass spectrometry data for the identification and quantification of small molecules (e.g pesticides and other environmental pollutants) in biospecimen to understand the interactions of the environment and health (see **EIRENE** for more details).

We emphasize on sustainable, long-term and open developments and rely on professional SW development standards to obtain reproducible results. As part of our international and multidisciplinary team in the **Spectrometric Data Processing and Analysis** Research Infrastructure (RI), you will implement robust and well tested software (mostly R & Python) and contribute to open-source projects with respective methodologies (pull requests, code reviews, etc.).

The position offers time flexibility, a high level of interdisciplinarity within fields of applied informatics, bioinformatics and analytical chemistry with a vast potential for the development of your expertise. As being part of RI, the position offers a unique opportunity for long term engagement in the academic field and potential for international collaboration with other European RIs.

Responsibilities may include

- Development of scientific computational applications, modification and extensions of 3rd party applications, mostly for mass spectrometry
 - Writing software and project documentation
 - Implementing automatic tests
 - Packaging software into reusable components
- Continuous communication with the scientists & users to understand the problem to be solved
- Informal algorithm specifications, mathematical formulae, engineering requirements
- Engagement in open-source projects with external partners
- Creating presentations for internal & external use (e.g workshops, conferences, ...)

Skills and Qualifications

We expect

- Creativity, open mind, continuous search for improvements, innovative thinking
- Ongoing self-education as part of the job
- Extensive engagement in collaborative software development tasks (code reviews, documentation writing, upstream contributions)

We require

- Knowledge at the level of a master's degree in computing, electrical engineering, or computational disciplines in natural sciences (bioinformatics, computational chemistry, ...)
- Some experience in collaborative software development
- Willingness to learn about the research area gradually

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- Good English skills

Beneficial to have/know

- Knowledge of additional programming languages (Java, C++, C#, Julia)
- Experience with the following frameworks / technologies: Workflow Engines (e.g Galaxy), Containers (e.g Docker), Git, SSH, Package Managers (e.g Conda)
- Experience in mass spectrometry data processing or other domain knowledge
- Working experience as software engineer (or comparable) in industry

We Offer

- Vibrant working environment and access to state-of-the-art infrastructure
- The dynamic group surrounded by an international team of experts
- Involvement in national and international projects
- **Employee benefits:** 6 weeks of leave per year, health insurance, pension insurance contribution, meal vouchers, discounted language courses, etc.
- Support with your relocation – more information here <https://www.muni.cz/en/about-us/careers/international-staff-office-iso>
- Brno provides a high quality of life; it is a university city with lots of cultures and very family-friendly <https://brnoregion.com/work>
- We offer an initial appointment for one year with possible extension upon mutual satisfaction.

Application Process

Applicants should provide the following information in English

- CV (European standard recommended)
- Cover letter

The deadline for applications is on **31 March 2022**. 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 below). 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.

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HR EXCELLENCE IN RESEARCH

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[Brno](#), the capital of the South Moravian Region, situated approximately halfway between Prague and Vienna, it is the second largest university city 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](#).