

The Faculty of Sciences of the University of Antwerp is seeking to fill the following **full-time** vacancy in the **Department of Mathematics and Computer Science**.

Scientific software developer in the field of pharma data analytics.

This project will be conducted at the interface of 1) the biodata mining team (under supervision of prof. Kris Laukens), a rapidly growing, multi-disciplinary unit within the ADReM data lab / biomina of the department of Mathematics and Computer Science (University of Antwerp, Belgium); 2) (under supervision of prof. Dirk Valkenburg) the *Center for Statistics* (University of Hasselt, Belgium); and 3) a major pharmaceutical industry partner.

Job description

You will develop novel implementations for cutting-edge data mining and machine learning approaches, tailored towards the field of small molecule mass-spectrometry. This chemical field plays a central role in many top-notch pharmaceutical and biotechnological applications. Its enormous data complexity requires novel, robust data processing, management and visualisation techniques. As a scientific programmer, you will fulfill a central role in translating the newest data science approaches to industry-grade applications. While being familiar with the type of data and applications is not a prerequisite, you will work closely with domain experts to understand the data and its particular problems, and you will learn to understand the challenges of their applicability in a real laboratory setting. You will implement your methods in a user-friendly software environment and application-programming interface. You collaborate with academic researchers in different disciplines (from computational sciences to life sciences) within the consortium (biomina- the biomedical informatics network Antwerpen, UAntwerpen, UHasselt) and with the industrial partners of the project.

Profile and requirements

- You have a master or doctoral degree in computer science (data science, software engineering, ...), bioinformatics or chemoinformatics;
- You have a good understanding of data mining, statistics, machine learning and visualisation techniques.
- You have excellent (scientific) software and database development skills.
- You have a strong interest in translating the newest data science solutions to industry-grade applications.
- You have excellent interdisciplinary English communication skills, you are quality-oriented and creative, and eager to emerge in new domains. Proven project management skills and industrial experience are a plus;
- Previous experience in data mining for bioinformatics, mass spectrometry or related techniques is an advantage but not a prerequisite;

We offer

- A software developer or postdoctoral position (depending on your degree) for a period of two years. The default start date of the position is November 1st 2017 (but this is open for negotiation);
- A salary commensurate with your experience and qualifications;
- A dynamic, stimulating and multinational work environment.

Interested?

Candidates are invited to send a motivation letter, a detailed CV and contact info of at least two references (including email addresses and phone numbers) to Prof. Kris Laukens (kris.laukens@uantwerpen.be) and Prof. Dirk Valkenburg

(dirk.valkenborg@uhasselt.be). Don't hesitate to contact us in advance for more information.