Job advertisement no. 059/2024

The research group Drug Bioinformatics, led by Prof. Dr. Olga V. Kalinina, at the Helmholtz-Institute for Pharmaceutical Research Saarland (HIPS) in Saarbrücken, is seeking a

Postdoctoral Research Scientist (f/m/d)

The Helmholtz Institute for Pharmaceutical Research Saarland (HIPS) researches new active ingredients against infectious diseases. It was founded in August 2009 as a branch of the Helmholtz Centre for Infection Research (HZI) in Braunschweig together with Saarland University. A new research building was moved into on the campus of Saarland University in 2015. Currently, 260 employees of international origin work at the institute, which is still under construction. The HIPS is the first publicly funded non-university research institution in Germany explicitly dedicated to pharmaceutical research. The institute cooperates with international and national research institutions and industrial companies.

The research group Drug Bioinformatics group cutting-edge bioinformatics and computer science techniques for predicting mode-of-action of bioactive compounds and effects of genetic variants on the phenotype. We combine the expertise in protein structure analysis and machine learning to create more powerful and explainable computational methods.

The BMBF-funded project "AI-based methods for synergistic exploration of disease symptoms and drug side effects" aims at discovering mechanisms of drug side effects by leveraging systems biology, structural bioinformatics, and machine learning and artificial intelligence. This is a joint project between HZI/HIPS, University of Hamburg, and German Electron Synchrotron (DESY).

Responsibilities:
- Project-related research and implementation of computational models and pipelines
- Participation in regular consortium meetings
- Supervision of bachelor and master students on topic related to the project
- Writing of scientific papers and project reports

Requirements:
- PhD degree or equivalent in bioinformatics, computer science, or any relevant field
- Knowledge of major bioinformatics methods, tools and databases
- Programming experience in Python
- Experience in design and implementation of machine learning models (sklearn)
- Experience with distributed version control systems (git)

Advantageous for this position:
- Experience in analysis protein three-dimensional structures is a plus
- Programming experience in C/C++, Java, or Perl is a plus
- Familiarity with statistical software (R, Matlab) is a plus

We offer you:
- Challenging and varied tasks in a dynamic and international research environment
- Most modern workplace equipment and computational resources
- Additional services of the public service
- Extensive further training and continuing education opportunities to develop professional knowledge and personal skills
- A corporate culture of appreciation and promotion of equal opportunities
- Flexible working hours and workplace design
- Support for a better balance between work and private life through our family office
- Subsidization of the job ticket

People with severe disabilities and equivalent professional qualifications who are suitable for the position are given preference. In order to protect your rights, we ask you to provide us with a clearly recognizable reference to the existence of a degree of severe disability in your cover letter or resume.

The HZI strives for professional equality between women and men. The position is suitable for part-time work.

Starting date:	As soon as possible. The contract will initially run for two years with a possibility of extension up to three years.
Salary:	E13 TVöD Bund
Working time:	39 hours per week
Place of work:	Saarbrücken
Probation period:	6 months
Published:	16.04.2024
Closing date:	14.05.2024

For further information please contact Prof. Dr. Olga V. Kalinina, phone 0681 98806 8500, email: olga.kalinina@helmholtz-hips.de.

How to apply:
When sending us your application documents, **please confirm** that you have read our privacy policy and that you agree to the processing of your personal data. Please use the text module in our privacy policy for this purpose. **Without these declarations, we cannot consider or process your application** and will immediately delete any application documents already received after the application deadline.

Please include a cover letter, resume, (employment) references, certificates, and (if available) work samples or reference projects with your application materials. Please refrain from sending a photo.

Please send your complete application, quoting the **reference number 059/2024,** to the Helmholtz Centre for Infection Research GmbH, Human Resources Department, Inhoffenstr. 7, 38124 Braunschweig, Germany or by e-mail. If you send your application in electronic form, please provide a **summary in one single (1) pdf document**.

We look forward to receiving your application!