Laboratory of Metabolism of Bioactive Lipids is looking for a new team member:

BIOINFORMATICIAN (m/f) data scientist

Are you driven by the desire to decode the intricacies of life using cutting-edge bioinformatics technologies? If you are passionate about Python, Docker, nginx, and Linux server administration and proficient in C# and Matlab, we have an exciting opportunity for you! Take your career to the next level, focusing on mass spectrometry, metabolomics, lipidomics, and proteomics, and help us generate visually compelling data from clinical trials.

Job Description:

Omics Data Virtuoso: Process and visualize omics data focusing on clinical trial findings.

Clinical Trial Visionary: Gain data-driven insights from clinical trials by using your expertise to transform complex datasets into visually appealing representations.

Programming Prodigy: Harness the power of Python to develop robust solutions for metabolomics/lipidomics/proteomics data analysis and clinical trial data processing.

Grid/Cluster Aficionado: Navigate complex grid and cluster calculations to accelerate metabolomics, lipidomics, and proteomics studies computations.

Data Deployment Maestro: Expertly prepare and deploy Docker images to seamlessly integrate metabolomics, lipidomics, and proteomics pipelines.

Linux Server Guru: Optimize and administer Linux servers to ensure flawless operation of bioinformatics workflows.

Please refer to our website and papers to familiarize yourself with our research.
Vondrackova et al., Anal Chem. 2023, 10.1021/acs.analchem.3c02039
Brejchova et al., Food Chem. 2022, 10.1016/j.foodchem.2022.132983
Lopes et al., Cell Rep. 2021, 10.1016/j.celrep.2021.109833
Brejchova et al., PNAS 2021, 10.1073/pnas.2020999118

GitHub: https://github.com/IPHYS-Bioinformatics

We offer:
o Highly interdisciplinary work in a creative academic environment. Everyone can contribute ideas to move the project forward.
o Projects balanced between basic and translational science.
o Opportunities for training (data processing workshops, courses, etc.)
o Fixed-term employment with the possibility of extension, starting upon agreement.
o Full time job (1.0 FTE), home office based on the nature of the work.
o Competitive salary based on the internal rules of the institute, skills and experience of the candidate.
o Language courses, on-site parking, bike room, campus hostel, home office, support for international colleagues, etc.
o Six weeks vacation + three sick days.

Our requirements:
✓ University degree with a focus on bioinformatics, computer science, or related science disciplines, the position is also suitable for skilled undergraduate students or postdocs.
✓ Proficiency in Python, including data analysis and visualization packages (e.g., pandas, matplotlib/seaborn/plotly, flask/dash).
✓ Independence, diligence, analytical thinking, and ability to solve complex problems.
✓ Enthusiasm and motivation to learn new things outside of your comfort zone (basic biology, chemistry, programming languages) from more experienced colleagues.
✓ Communication in English at least at the level of reading documentation and Stack Overflow.

Additional skills (would be considered an advantage)
o Knowledge of C#, R, or Matlab; Linux server administration, docker, nginx
o Knowledge of LC–MS data handling.

Location:
Laboratory of Metabolism of Bioactive Lipids of Dr. Ondrej Kuda, Institute of Physiology, Czech Academy of Sciences, Prague, Czech Republic

Lab: https://www.fgu.cas.cz/en/departments/laboratory-of-metabolism-of-bioactive-lipids

The Institute of Physiology of the Academy of Sciences of the Czech Republic researches normal and pathological physiology, focusing on studying the mechanisms of severe human diseases.

Duration:
12 – 36 months, starting as soon as possible

How to apply:
Have we awakened your interest? If you meet the requirements, please write a motivation letter and send it by email along with your CV describing your skills and previous experience to Katerina Rozsypalova (personalni@fgu.cas.cz) by March 29, 2024, at the latest.