Job posting

Type of position
☒ scientific
☐ administrative

Target group
☐ graduates
☒ post docs
☐ other

Title
Postdoc in Computational Biology

Institution
The Department of Computational Biology for Infection Research at the HZI studies the human microbiome, viral and bacterial pathogens, and human cell lineages within individual patients by analysis of large-scale biological and epidemiological data sets with computational techniques.

The lab is part of the Helmholtz Center for Infection Research, the Braunschweig Integrated Center for System Biology (BRICS) and Technical University of Braunschweig, Germany. The Helmholtz society is the largest research organization in Germany and ranked 7th among the research institutions in the world. Braunschweig is a centrally located city in Germany, with many scientific institutions, recreational areas, comparably modest costs of living and about 250.000 residents.

Position
In our lab, you will work with an international and highly motivated team. You will have the opportunity to attend and present your work on international scientific conferences. Furthermore, the position offers remuneration and social benefits according to TvöD.

Starting date
As soon as possible

Contract
Initial contract for 2 years with possible extensions depending on performance

Salary
TVöD E13.2 – E14.2 (~54.000 € – 63.000 pre-tax, depending on qualifications)

Responsibilities
The goal of our projects is the development of algorithms and computer-aided methods for personalized infection medicine, particularly clinical metaomics, vaccine and drug design, as well as development of core technologies for meta- and other omics analyses. The methods that we develop make use of concepts from machine learning, phylogenetics and population genetics. The lab co-organizes the Critical Assessment of Metagenome Interpretation challenge, hosts the bioinformatics unit of the German Center for Infection Research, and is well connected to local, national and international partners from medicine, biology and computer science. Notably, the lab is part of the Cluster of Excellence RESIST funded by Deutsche Forschungsgemeinschaft (DFG), carrying out research on infections in order to specifically help
people, for whom disease-causing viruses and bacteria are particularly dangerous. The lab’s projects offer plenty of opportunity for an excellent bioinformatics postdoc to shine.

Requirements
The candidate should have a PhD degree in bioinformatics, machine learning, biomathematics, computer science, statistics or similar and a competitive publication record. A commitment to reproducible research, the ability to work in a highly interdisciplinary research field and very good programming skills are obligatory. Prior experience in meta’omics, infection research, statistical learning or with the analysis of NGS data sets is advantageous, but not required.

Application procedure (deadline etc.)
Please send your electronic application materials including a letter of motivation, curriculum vitae, copies of your most important publications and addresses of two or three referees referring to code PD/2020 by E-Mail to:

jobs.BIFO@helmholtz-hzi.de

Contact
In case of questions please contact Ms Lorina Reinhardt, Tel.: 0531/391-55270, E-Mail: jobs.BIFO@helmholtz-hzi.de.