

## Job announcement No. 01/2019

The Department of Computational Biology for Infection Research at the Helmholtz Centre for Infection Research (HZI) is looking for a highly motivated

### Postdoc in Computational Biology

The Department of Computational Biology for Infection Research at the HZI, led by Prof Dr Alice C. McHardy, is looking for excellent postdocs in computational biology or bioinformatics.

The goal of our projects is the development of algorithms and computer-aided methods to analyze (meta)-omics data of the human microbiome, viral and bacterial pathogens, and human cell lineages within individual patients, to further personalize medicine in infection research. The methods that we employ or develop in our research are related to the fields of machine learning, phylogenetics and population genetics-. The lab co-organizes the Critical Assessment of Metagenome Interpretation challenge (CAMI; Sczyrba et al., *Nature Methods* 2017), hosts the bioinformatics unit of the German Center for Infection Research (DZIF; <https://www.dzif.de>), is part of the new German excellence cluster RESIST ([www.dfg.de](http://www.dfg.de)) and a priority programme on CRISPR-Cas (<https://gepris.dfg.de/gepris/projekt/405892038>) and collaborates locally, nationally and internationally with biologists and medical experts. 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, computational biology, 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.

**Location:** Braunschweig (Germany)

**Starting date:** as soon as possible  
initial contract for 2 years with possible extensions depending on performance

**Probation period:** 6 months

**Salary:** TVöD E14

**Published on:** 22.05.2019

**Closing date:** 22.06.2019 (~4 weeks)

## **Equal Opportunities**

Qualified applicants with a disability will be given preference. Qualified women are especially invited to apply.

The department is part of the Helmholtz Center for Infection Research (<http://www.helmholtz-hzi.de/>), the Braunschweig Integrated Center for System Biology (BRICS) and Technical University of Braunschweig, Germany. Braunschweig is a city with a high density of scientific institutions, many parks and recreational areas and about 250.000 residents. It is centrally located within Germany, with shorter train travel times (30 min, 90 min) to Hannover and Berlin.

Contact for questions: Prof. Alice McHardy

Phone: +49 531 391-55271

URL: <https://bit.ly/hzi-bifo>

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 01/2019 to:

Helmholtz Centre for Infection Research, Dept. of Human Resources  
Inhoffenstraße 7, 38124 Braunschweig

or by E-Mail to:

[JobsHZI@helmholtz-hzi.de](mailto:JobsHZI@helmholtz-hzi.de)