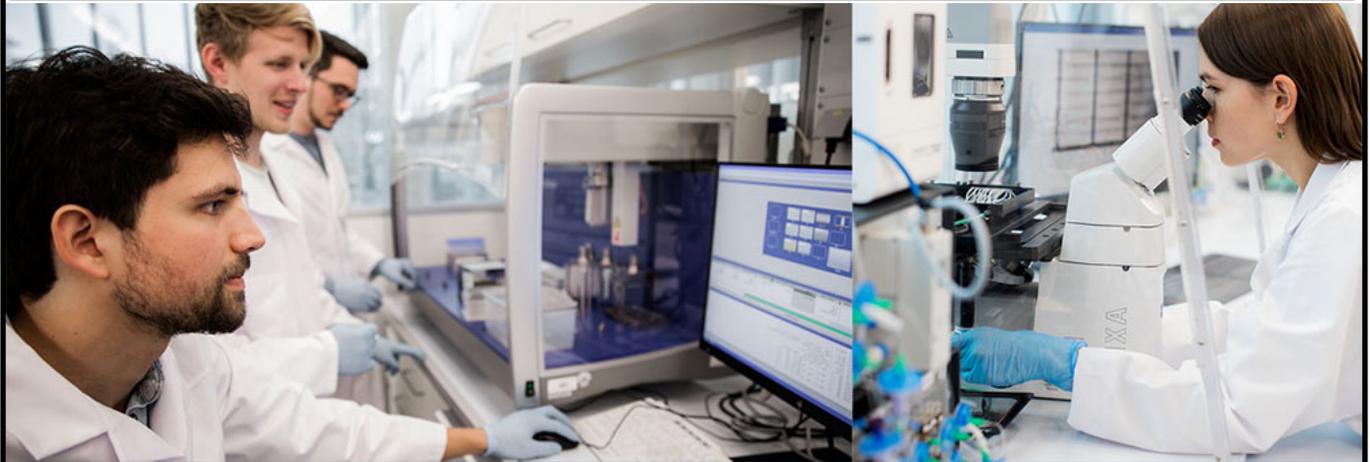


HelmholtzZentrum münchen

German Research Center for Environmental Health



As German Research Center for Environmental Health, Helmholtz Zentrum München pursues the goal of developing personalized medical approaches for the prevention and therapy of major common diseases such as diabetes mellitus, allergies and lung diseases. To achieve this, it investigates the interaction of genetics, environmental factors and lifestyle.

The institute of Virology is seeking a highly motivated postdoctoral bioinformatician for the newly funded ERC project, for omics analysis, with a particular emphasis on bacteriophage communities.

The research focus in our lab is on the interaction of bacteria and viruses (phages). As pioneers in the development of “metaviromics” which involves isolating and sequencing the RNA/DNA from all of the viruses in sample directly, we query 'wild' viral populations to identify important hypotheses that can be evaluated using model-system approaches (Deng et al, Nature, 2014). We also employ sing-cell assays to investigate questions that are critical for modeling and predicting the impacts of phage-host interactions. We develop phage therapy, a promising complement to antibiotics, utilizes phages or phage-derived inhibitors as natural ways to fight antibiotic resistance.

Postdoctoral Position in Bioinformatics (f/m/divers) 2019/0208

Job description

The successful applicant will be involved in the development and the use of new methods and tools for illustrating bacteriophages infecting antibiotic resistance bacteria, including handling, analyzing and interpreting metagenomic and meta-transcriptomic (RNA-seq), proteomic data, as well as further development and/or application of multivariate analysis methods for comparative omics.

Your qualification

- Recent PhD in Computational Biology, Bioinformatics, (environmental) genomics, or a related field.
- Experience in any of the following areas: viral genomics, metagenomics, meta-transcriptomics (RNA-seq), proteomics, microbial ecology.
- Strong experience in scripting languages (e.g. Perl or Python).
- Good experience with processing and analysis of genomic/metagenomic data using computer clusters / high-performance computing.
- Good experience with using standard bioinformatics tools and database programming (e.g. SQL).
- Good experience with using analytic tools (e.g. R or Matlab).
- Fluency in English both spoken and written.
- Biology/Biochemistry knowledge and understanding of key and complex biological concepts (genes, pathways, microbial phylogeny and microbial ecology.).
- Ability to independently carry out creative research with tenacity and of the highest quality standards.
- At least one first author paper in an international peer reviewed journal.

What we offer you

A challenging and versatile field of work providing you with the freedom to follow your instinct and be creative. With the help of extensive and goal-orientated professional development measures and career-building programmes we encourage you to grow as a person. To ensure a good work/life balance we assist you with flexible working hours, in-house health management, a nursery, child care subsidy where required and an "Elder Care" concept as well as other consultation and support options.

Remuneration and benefits are in accordance with the collective agreement for the public service (TV EntgO Bund).

The position is (initially) limited to two years but under certain circumstances an extension can be arranged.

The activity involves special knowledge and experience specific to own scientific skills.

As a holder of the Total E-Quality Award, we promote equality of opportunity. In order to increase the proportion of women in management positions, we would be pleased to receive corresponding applications. Qualified applicants with physical disabilities will be given preference.

Please send your electronic application (in English) in a single PDF file - including CV and a complete list of publications, statement of research interests, and at least two reference letters.

We are looking forward to receiving your comprehensive online application.

[Apply now](#)

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Deutsches Forschungszentrum für Gesundheit und Umwelt (GmbH)
Institute of Virology
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The award highlights
our commitment of
gender equality.

The Helmholtz Zentrum München is part of the Helmholtz Association, Germany's largest scientific organization. Altogether 39 000 people currently work in its 19 scientific-technical and biological-medical research centers. The Association's annual budget amounts to more than 4.5 billion Euros.

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