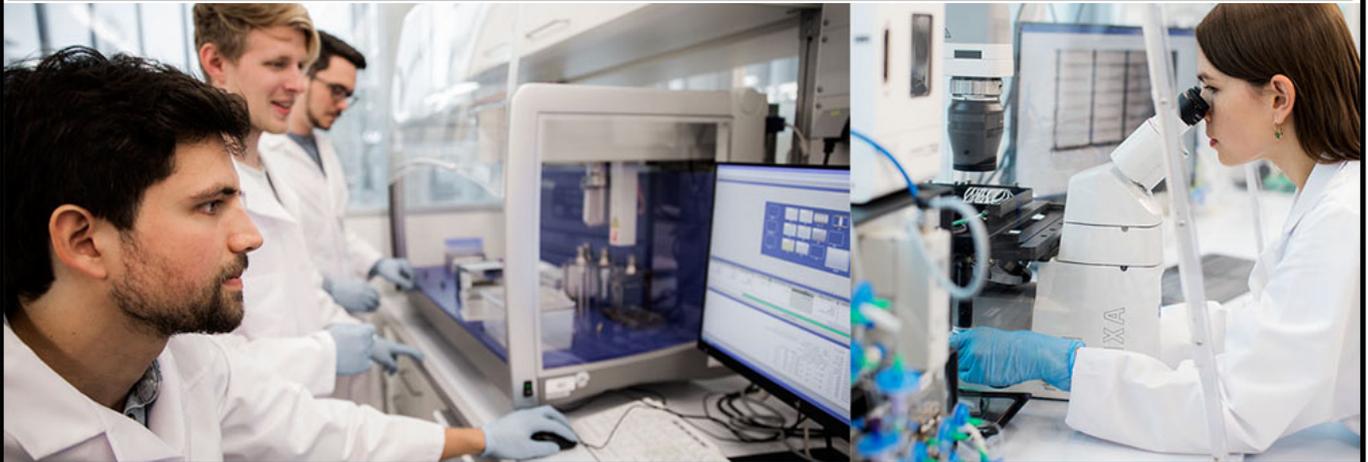


HelmholtzZentrum münchen

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.

At our institute you will find a scientifically stimulating international environment. Together with renowned scientists and supported by an excellent infrastructure you make an important contribution of the improvement of people's quality of life.

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 are seeking two highly motivated PhD students for the newly funded ERC project to develop phage therapy, which utilizes phages or phage-derived inhibitors as natural ways to fight antibiotic resistance.

2 PhD positions in Virology/Microbiology/Phage Biology (f/m/d)

2019/0207

Job description

The successful applicants will be involved in the development and the use of new

methods and tools for illustrating bacteriophages infecting antibiotic resistance bacteria, including

- isolating, handling, analyzing phages on antibiotic resistance bacteria
- studying the phage-host interaction using proteomic tools and validating in vitro and in vivo

Your qualifications

- Master in virology, microbiology, molecular biology, (environmental) genomics, microbial ecology or a related field
- Experience in any of the following areas: viral genomics, metagenomics, NGS, proteomics
- Fluency in English both spoken and written
- Experience with flow cytometers is advantageous

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 (EG 13 50% TV EntgO Bund). In addition, there is also the possibility of granting an allowance amounting to 15% if the necessary conditions are fulfilled.

The position is (initially) limited to 3 years with the option of a further year extension.

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. Applications from women are welcome. 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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**Helmholtz Zentrum München
Deutsches Forschungszentrum für Gesundheit und Umwelt (GmbH)
Institute of Virology
Ingolstädter Landstraße 1
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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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