

15.05.2023

# IUF

LEIBNIZ-INSTITUT  
FÜR UMWELT-  
MEDIZINISCHE  
FORSCHUNG

The IUF – Leibniz Research Institute for Environmental Medicine investigates the molecular mechanisms through which particles, radiation and environmental chemicals harm human health. The main working areas are environmentally induced aging of the pulmonary system and the skin as well as disturbances of the nervous and immune system. Through development of novel model systems, the IUF contributes to the improvement of risk assessment and the identification of novel strategies for the prevention / therapy of environmentally induced health damage. The junior research group *Computational Phenomics* of Prof. Sahm is hiring a

## **Bioinformatician / Computational Biologist (m/w/d)**

### **Activities and Responsibilities**

The *Computational Phenomics* group investigates how environmental toxins (e.g. particles, radiation or chemicals) accelerate the aging process at the molecular level and promote the development of associated diseases. To this end, we evaluate multi-omics data from cell cultures, animal models and human subjects. Complementary, we identify evolutionary adaptations that cause certain animal models, such as the naked mole rat, to be long-lived, age healthily, and have high resistance to environmental toxins. Therefore, we compare the genomes and epigenomes of such species with those of shorter-lived and more disease-prone relatives.

### **Qualification profile**

- PhD in life sciences, informatics or mathematics
- Experience with evaluation of omics data, e.g., next-generation sequencing
- Experience in the implementation of research projects
- Programming skills

Without requiring it, we would especially appreciate if you would bring knowledge in one or more of the following areas: multi-omics integration, machine learning, phylogenetics, genome assembly, epigenetic clocks.

### **We offer**

- Access to state-of-the-art facilities and unique sample material from animal models and human subjects
- Opportunity to develop your own research profile and to make a decisive contribution to a newly established research group
- Possibility for habilitation
- Modern and family-friendly working conditions
- Future-proof workplace
- Flexible working hours and the possibility of mobile work
- Supplementary company pension scheme in accordance with collective bargaining law (RZVK)
- A low-cost job ticket for the Rhein Ruhr public transport system
- 30 days of vacation according to the collective agreement

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The position starts as soon as possible and is **initially limited to 2 years, with the option of continued employment**. The employment relationship is based on the provisions of the Collective Agreement for Employees of the Federal States (TV-L); remuneration is based on pay group 13 TV-L. The weekly working time is 39:50 hours.

We promote equal opportunities and diversity. Women are particularly invited to apply and will be given preferential consideration in accordance with the LGG NRW. Applications from people with severe disabilities and their peers are also expressly encouraged.

Please address your application (short letter of motivation, CV, qualification certificates) with the reference "Computational Phenomics" in the subject line as one summarized document in PDF format by email: [Bewerbung@IUF-Duesseldorf.de](mailto:Bewerbung@IUF-Duesseldorf.de).

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Application documents submitted by post are not returned. Documents for applicants not considered are destroyed appropriately once the procedure is complete.

