The Rheinische Friedrich-Wilhelms-Universität Bonn is an international research university with a broad spectrum of disciplines. 200 years of history, around 38,000 students, more than 6,000 employees and an excellent reputation at home and abroad: The University of Bonn is one of the most important universities in Germany and has been awarded the title of Excellence University.

The LIMES institute / Dept. Genomics and Immunoregulation is offering a PhD student position (65%) in bioinformatics for an initial period of three years with a possibility of extension.

The Life & Medical Sciences (LIMES) Institute is an interdisciplinary institute for basic biomedical research, with a scientific focus on the regulation of lipid metabolism and the immune system in health and disease.

Job description

The project is part of the newly established collaborative research center (CRC) 1454 “Metaflammation and Cellular Programming” and revolves around the impact of lifestyle and environmental influences on the human immune system, which the successful applicant will address computationally using single-cell omics data improving/developing computational approaches using state-of-the-art tools and IT infrastructure.

Qualification profile

The PhD student will develop skills in bioinformatics data evaluation and analysis, incl. single-cell omics data.

Your duties

- Planning of single cell experiments,
- Evaluation and data analysis,
- Application, improvement and development of computational approaches,
- Summary of research findings and contribution to publish results in research journals,
- Responsibility for shared computational operations.

Your profile:

- Master or equivalent in bioinformatics, computer science or a related field,
- Strong background in computational biology, bioinformatics, biostatistics,
- Experience in the analysis of Next-Generation Sequencing transcriptome data, e.g. single-cell RNA-seq and bulk RNA-seq,
- Strong background in biology, preferably immunology is of advantage,
- Enthusiasm to work in a thriving academic research environment,
- Ability to work independently as well as in a team at the interface between life sciences and informatics,
- Very good communications and writing skills in English,
- An interest to work in an international environment.
We offer:

- A challenging research project,
- State of the art technologies to tackle important scientific and medical questions,
- A thriving interdisciplinary research environment at the LIMES Institute,
- Fully established bioinformatics department,
- Memory-Driven Computing hardware resources,
- Supportive mentoring,
- Participation in the university-wide pension system (VBL),
- Access to extensive university sports program,
- A diverse and demanding job with one of the largest employers in the region,
- Very good transport connections or the possibility to purchase a VRS major customer ticket or to use inexpensive parking facilities,
- A possibility to use the day care center,
- Salary according to salary group 13 TV-L.

The University of Bonn is committed to diversity and equal opportunities. It is certified as a family-friendly university. Its aim is to increase the proportion of women in areas where women are under-represented and to particularly promote their careers. It therefore urges women with relevant qualifications to apply. Applications are treated in accordance with the Land Equality Act. The application of suitable people with proven severe disabilities and persons of equivalent status is particularly welcome.

If you are interested in this position, please send your application documents including a CV, a brief statement of research experiences and interests, a list of publications (if applicable), and the contact details of two referees to Dr. Anna Aschenbrenner and Prof. Dr. Joachim Schultze office.immunogenomics@uni-bonn.de with the application code 10.21.331 by 30.04.2021. We are looking to fill this position as soon as possible.