The Cluster of Excellence ImmunoSensation² and the Core Unit for Bioinformatics Data Analysis are inviting applications for

**Data Scientists in Bioinformatics (m/f/d) (100%)**

The position is initially limited to three years with the possibility of extension. Two positions are available.

ImmunoSensation² is a Cluster of Excellence funded by Germany’s Excellence Strategy at the University of Bonn. Its scientists are dedicated to investigating innate immunity beyond the boundaries of classical immunology. In a joint effort, immunologists, neurobiologists, systems biologists and mathematicians from the University of Bonn and the German Center for Neurodegenerative Diseases (DZNE) of the Helmholtz Association aim to investigate how the status of the immune system, the metabolism and the nervous system connect in health and disease. ImmunoSensation² is embedded in the outstanding research environment of the University of Bonn, the University Hospital and the DZNE. Furthermore, ImmunoSensation² is internationally connected and maintains research partnerships with Australia (Melbourne University), Japan (Osaka University, Waseda University, Kyoto University) and the Netherlands (Radboud University, Nijmegen).

The announced position will be integrated into the Core Unit for Bioinformatics Data Analysis (CUBA) of the Medical Faculty at the University of Bonn, which provides quantitative and computational analyses, training and consultation for all members of the faculty. CUBA benefits from a shared computing infrastructure and exchange of expertise due to its embedding and liaison with the Institut für Medizinische Biometrie, Informatik und Epidemiologie (IMBIE) and the Institute for Genomic Statistics and Bioinformatics (IGSB). It operates in close collaboration with other core units like the NGS, flow cytometry and mass spectrometry core. The unit aims to establish a platform for computational biology, to facilitate quantitative approaches and to share and offer validated methods, expertise and resources. These methods will continuously evolve according to the needs of collaborators and progress in science to provide state-of-the-art bioinformatics and data analyses.

**Your tasks:**

- Analysis and processing of high-volume data sets such as next generation sequencing
- Design, implementation and application of tailored analysis workflows
- Statistical analysis and visualization
- Interaction and collaboration with researchers
  - Consultation regarding the planning and design of experiments
  - Presentation and reporting of results
  - Recommendation of publicly available resources and tools
- Working in a team with bioinformatic and computational colleagues
- Selection and adaption of (bioinformatical) methods and tools
- Training courses and education
Your profile:

- Master or PhD in bioinformatics, computational biology, computer science, statistics, mathematics or any other related field
- Strong expertise in the analysis of next generation sequencing data (NGS), such as single cell genomics, RNA-Seq, ChIP-Seq and ATAC-Seq
- Profound knowledge of statistics, data analysis and visualisation techniques
- Proficiency in programming, e.g. with R/Bioconductor or Python
- Experience with Linux and high-performance computing (HPC)
- Background in molecular biology concepts and an interest in immunology
- Knowledge of high-throughput image analysis (FACS ImageStream) is considered a plus
- Good communication and presentation skills and fluency in written and spoken English
- Team player capable of adapting to a rapidly evolving and interdisciplinary research environment

We offer:

- There is also a possibility to use the day care center
- Supplementary benefits in the public sector (pension plan according to VBL)
- Salary according to the German salary scale TV-L (EG 13)

The University of Bonn is committed to diversity and equal opportunity. It is certified as a family-friendly university. It aims to increase the proportion of women in areas where women are under-represented and to promote their careers in particular. It therefore urges women with relevant qualifications to apply. Applications will be handled in accordance with the Landesgleichstellungsgesetz (State Equality Act). Applications from suitable individuals with a certified serious disability and those of equal status are particularly welcome.

Applicants should send their application in a single pdf file (max. 5 MB), including a motivation letter, CV, scanned academic degrees, a list of publications and the contact details of two references. More information on the scientific projects and project leaders can be found at www.immunosensation.de and information on CUBA can be found at https://cores.ukb.uni-bonn.de/bioinformatics/

Further details will also be provided during the recruitment process. Applications will be accepted on rolling basis and successful candidates can begin on May 1, 2020 or later.

Please send your application by email using the reference number 047_2020 to

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