The University Hospital Bonn is a maximum care facility with a regular capacity of 1,300 beds. Our current staff of more than 8,000 performs assigned duties in research, teaching and medical treatment, including the use of advanced medical technologies, and public health care services at the highest possible level. Interested applicants will be offered a wide range of employment opportunities in a variety of fields.

The Institute of Human Genetics, Department of Genomics, School of Medicine, University of Bonn, Germany, invites applications for a

**PhD position (TV-L E13, 65%) (m/f/d)**

starting March 2021.

The PhD position will be based in the multidisciplinary research project “Social Phobia Research: Understanding phenotypic dimensions and the genetic architecture of social anxiety disorder”, which is financed by the Else Kröner-Fresenius-Stiftung (EKFS). The aim of the project is the systematic investigation of the genetic basis of social anxiety disorder and related subphenotypes. For this purpose, the successful candidate will apply state-of-the-art molecular genetic technologies, manage and analyze the generated data, and follow-up relevant findings.

The successful candidate will be involved in the administration, DNA extraction, genotyping, quality control, and imputation of proband samples. The generated data will be used for the performance of both genome-wide association studies (GWAS) and GWAS meta-analyses, as well as for the calculation of polygenic scores. The proposed work will also involve the application of advanced bioinformatic- and biostatistical analyses. These will include calculation of the single-nucleotide polymorphism (SNP)-based heritability of social anxiety disorder and genetic correlations with other traits/diseases; the performance of gene-based tests; and the performance of pathway and network analyses.

The Institute of Human Genetics is one of Germany’s leading centers in terms of the identification of genetic risk factors for multifactorial disorders. The Institute provides a unique scientific environment for researchers, which combines expertise in the analysis and interpretation of genomic data with access to state-of-the-art high-throughput genomic technologies (microarrays, next- and third-generation-sequencing, bioinformatics). The University of Bonn is one of eleven German Universities of Excellence, and is the only university in Germany to have six Clusters of Excellence. In recent decades, more Nobel Prize winners and Field Medalists have emerged from the University than is the case for any other German university.

The Institute of Human Genetics is seeking a highly motivated, team-oriented graduate candidate with a strong interest in human genetics and complex disease, who is eager to work in a modern laboratory environment and to apply cutting-edge genomic and molecular biology technologies. Preferably, the successful candidate will hold a diploma or a master’s degree in Molecular Biology, Molecular Genetics, Biomedical Sciences, or a related subject. Proficiency in German and English and skill in the application of molecular genetic techniques are required.
Experience in the use of computational tools (MS Office, MS Windows, Linux, PLINK, R), and applied data analysis and database usage would be beneficial.

The PhD position will be integrated into the PhD Program of the School of Medicine at the University of Bonn and the Graduate School of Clinical and Population Sciences. Successful program candidates are awarded a PhD.

The position is initially limited to three years, with the possibility of extension.

The Institute of Human Genetics offers:

- Remuneration in accordance with the German salary scale (EG 13, 65%)
- A “Großkundenticket” (ticket for subsidized public transport)
- There is a possibility to use the day care center
- Supplementary benefits in the public sector (pension according to VBL)

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

Further information can be obtained by emailing Jun.-Prof. Andreas Forstner (PhD_SoPho@uni-bonn.de).

Applicants should send their application in a single PDF-file, including cover letter, detailed CV, scanned academic degrees, and the contact details of two referees, by email only to PhD_SoPho@uni-bonn.de until 02.02.2021. The email should specify Reference number 830_2021.

Jun.-Prof. Dr. med. Andreas Forstner
Institute of Human Genetics
Department of Genomics
Venusberg-Campus 1
53127 Bonn, Germany
Email: PhD_SoPho@uni-bonn.de