

We combine excellence in research, teaching and patient care. The University Hospital Bonn is a maximum care hospital with more than 1,300 beds. With around 38 clinics and 31 institutes as well as more than 8,000 employees (over 5,000 full-time staff), the UKB is one of the largest employers in Bonn. Every year, the UKB treats around 50,000 inpatients and around 35,000 emergencies, as well as providing over 350,000 outpatient treatments.

The *Institute of Experimental Epileptology and Cognition Research* and the *Institute of Reconstructive Neurobiology* at the University Hospital Bonn have an immediate vacancy for the following part-time position (19.25 hours/week):

PhD position (m/f/d) in Stem Cell-Based Neural Reconstruction

The position is embedded in a high-level European research consortium, which aims at exploiting human induced pluripotent stem cell (iPSC)-derived neurons for neural cell replacement. The project is part of a collaboration between the Institute of Experimental Epileptology and Cognition Research and the Institute of Reconstructive Neurobiology at the University Hospital Bonn. It has a strong focus on using novel virus-based optical reporter systems and super resolution expansion microscopy for assessing activity and circuit integration of human neurons upon integration into organoids and the adult mouse brain.

Your tasks:

The PhD project is part of the European Commission Initiative for “Novel Strategies for Cell-based Neural Reconstruction (NSC-REC)” and will be integrated into the BIGS Neuroscience PhD Program at the University of Bonn. This PhD program is embedded in a vibrant and collaborative research environment including the Faculty of Medicine, the Faculty of Natural Sciences and Mathematics, and high-profile research institutes such as the Caesar Research Institute of the Max Planck Association and the German Center for Neurodegenerative Diseases. This multidisciplinary research environment guarantees an optimally structured, student-centered and English language-based Ph.D. program with extensive training and support.

Our requirements:

The ideal candidate is a highly motivated, team-oriented young scientist with a strong interest in neuroscience, modes of neuronal circuit formation and function, and iPSC-based neuroregeneration. Experience in molecular biology, animal experimentation and microscopy is advantageous.

Candidates should hold a diploma or a master's or equivalent degree in the biosciences, medicine, physics, or related fields.

We offer:

- A Ph.D. student position starting as soon as possible with funding for at least three years

- You will work in a dynamic and international group with exposure to basic and translational research as well as microbiology, immunology and human and rodent parasitic infections
- Students are encouraged and supported in attending scientific conferences to present their results and are also encouraged to attend and participate in house colloquia, University symposia and international conferences
- The salary will be according to the German salary scale TV-L (EG 13)
- A "Jobticket" (subsidized public transport) is available
- There is also a possibility to use the day care center
- Supplementary benefits in the public sector (pension plan according to VBL)

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.

Contact information

Please send your application quoting the reference number 281_2021 along with your bibliography, reprints of your most relevant publications and the names of 3 references within 3 weeks after publication of this job advertisement to:

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