At the Center for Regenerative Therapies Dresden (CRTD), an Institute of the Center for Molecular and Cellular Bioengineering (CMCB), the Junior Research Group of Dr. Jared Sterneckert, “iPS Cells and Neurodegenerative Disease,” is looking for a

**Research Associate / PhD Position**

(Subject to personal qualification, employees are remunerated according to salary group E13 TV-L)

The position starts ideally **November 1st 2018**, entails 65% of the fulltime weekly hours and is initially limited until January 31st 2020 with an optional extension. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position offers the chance to obtain a further academic qualification (e.g. PhD).

Dr. Sterneckert's group uses patient specific induced pluripotent stem (iPS) cells to generate models of neurodegenerative diseases, including Parkinson's disease (PD) and amyotrophic lateral sclerosis. Using a combination of gene editing, proteomics, and small molecules, we aim at understanding the mechanism(s) of pathogenesis and identifying novel treatments.

**Position and Requirements**

The aim of this project is to use iPS cell-derived neurons to model Parkinson's disease, particularly the role of phase separation and axonal trafficking. These models will be used for a high-throughput screening campaign to identify novel therapeutic compounds in close cooperation with the Lead Discovery Center GmbH and the teams of Simon Alberti and Anthony Hyman (Max Planck Institute of Molecular Cell Biology and Genetics), as well as Thomas Gasser (Hertie Institute for Clinical Brain Research).

We seek highly motivated, ambitious, and talented scientists to join our enthusiastic and collaborative team in an outstanding scientific environment. We expect the following: an outstanding university degree (Master or equivalent) in Biology, Biomedicine or similar. Significant experience with cell culture is required. Experience with iPS cell culture, and/or CRISPR/Cas9 mediated gene editing are preferred. Experience with molecular/biochemical methods, including western blotting, plasmid construction/preparation, and immunofluorescence are helpful. In addition, applicants are required to have the ability to work in an international team; inter- and multidisciplinary thinking; high motivation; an integrative and cooperative personality with excellent communication and social skills; fluency in English – written and oral.

Applications from women are particularly welcome. The same applies to people with disabilities.

**Research Environment**

The Center for Regenerative Therapies Dresden (CRTD) is an interdisciplinary institute at the CMCB with a research center and Cluster of Excellence, comprising 18 core research groups. Complementing these core groups is the CRTD Members network, an interdisciplinary organization of around 80 principal investigators located at other research institutes in Dresden including the Carl Gustav Carus Faculty of Medicine and the Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG).

Our mission is to understand the biology of stem cells and physiological and pathological tissue and organ repair in order to develop new treatments for neurodegenerative diseases, such as Alzheimer's disease and Parkinson's disease, haematological diseases, such as leukemia, metabolic diseases, such as diabetes, and bone diseases. Our scientists are encouraged to think
outside the box and to explore untapped areas of knowledge in the regenerative potential of the human body, and to apply this knowledge to prevent or reverse disease processes. To achieve our aims, we strongly support interdisciplinary research within the CRTD network where we have expertise in everything from the biology of cells and tissues to biomaterials to nanoengineering. CRTD has become a major driving force on campus and is ready to meet the challenges of moving new interventional strategies from bench to bedside.

**Application Procedure**

Please submit your application by **June 29th 2018** (stamped arrival date applies) preferably via the TU Dresden SecureMail Portal ([https://securemail.tu-dresden.de](https://securemail.tu-dresden.de)) by sending it as a single pdf document to daniela.mohrich@tu-dresden.de or via central mail service to the following address: **TU Dresden, CRTD, Frau Daniela Mohrich, Fetscherstr. 105, 01307 Dresden, Germany**. Please submit copies only as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.