The junior research group of Dr Maximina Yun, “Regeneration of Complex Structures in Adult Vertebrates”, at the Center for Regenerative Therapies Dresden (CRTD), an institute of the Center for Molecular and Cellular Bioengineering (CMCB), is offering a position, start date 01.01.2019 as

**Research Associate / Postdoc**

(Subject to personal qualification, employees are remunerated according to salary group E 13 TV-L)

The position is initially limited until 31.12.2021 with the option to be extended. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position offers the chance to obtain further academic qualification (e.g. habilitation thesis).

The CRTD is one of the world’s leading RegMed centers and forms the interface between basic research and clinical application. The aim of the CRTD is to investigate the body’s self-healing potential and to develop completely new regenerative therapies for previously incurable diseases. The research focuses on the areas of haematology and immunology, diabetes, neurodegenerative diseases, bone and cartilage replacement as well as cardiovascular diseases. Research at the CRTD is supported by the joint technology platform of the CMCB (information on the joint technology platform is available at [http://biotp.tu-dresden.de/biotechnology-platform/](http://biotp.tu-dresden.de/biotechnology-platform/)).

The major aim of the junior research group’s research programme is to understand the molecular and cellular mechanisms underlying regeneration in adult vertebrates, using the salamander (newts and axolotls) as model organisms. The junior research group uses a broad range of molecular, genetic, biochemical and advanced imaging techniques to investigate regenerative processes ([https://www.crtdresden.de/de/forschung/research-groups/core-groups/crtd-core-groups/yun/](https://www.crtdresden.de/de/forschung/research-groups/core-groups/crtd-core-groups/yun/)) and is also affiliated to the Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG) ([https://www.mpi-cbg.de/home/](https://www.mpi-cbg.de/home/)).

**Tasks:** You will work on a project focusing on understanding the interplay between cellular senescence and the immune response, and the impact of these processes on regeneration. You will carry out experimental research using a combination of techniques including salamander (newt and axolotl) transgenesis, tissue culture, expression analysis (RT-PCR, in situ hybridisation, RNA-seq), immunohistochemistry/fluorescence, functional studies (small molecule treatments, CRISPR mediated transgenesis) and imaging. You will be designing and conducting experiments, recording, analysing and interpreting data, communicating results (written/oral), actively participating in group and collaborator meetings, contributing to reports and publications and providing guidance and supervision to other group members and students. In addition, you will also be contributing to third party funding applications.

**Requirements:** We are looking for a highly motivated candidate with a university degree and a Ph.D. in Biological or Biomedical Sciences or related subjects, who aims to develop an independent research career. A strong background in immunology, cellular senescence and/or regenerative biology is required. Experience in genetic engineering, single cell analysis, advanced imaging, bioinformatic analysis and cell culture are highly desirable. Previous experience working with salamanders or other model systems of regeneration is desirable but not essential. Ability to work independently, show self-initiative and motivation to explore and develop new techniques and
concepts are essential. Excellent communicational skills and fluency in English are necessary for this position.

Informal enquiries should be directed to Dr Maximina Yun (maximina.yun@tu-dresden.de). Applications from women are particularly welcome. The same applies to people with disabilities. Please submit your application documents, including a letter of motivation describing published and ongoing work, CV, letter or contact for 3 references and a statement of future research interest until 20.12.2018 (stamped arrival date applies) preferably via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de as a single PDF file to jana.fischer2@tu-dresden.de or alternatively to: TU Dresden, CRTD, Frau Jana Fischer, Fetscherstraße 105, 01307 Dresden. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: https://tu-dresden.de/karriere/datenschutzhinweis.