At the Center for Regenerative Therapies Dresden (CRTD), an institute of the Center for Molecular and Cellular Bioengineering (CMCB), the Chair of Stem Cell Research with Focus on cell-based approaches to regenerative biomedicine (Prof. Dr. Michael Sieweke), is offering a position as Research Associate / Postdoc (Subject to personal qualification, employees are remunerated according to salary group E13 TV-L) starting 1st of June 2020. The position is initially limited until 19th of October 2020 according to BEEG with the option to be extended for the period of parental leave probably until October 2022. The research focus of the chair is to gain new insights into the regulatory mechanisms governing the self-renewal, differentiation and aging of macrophages (Aziz et al., Science 2009, Sieweke and Allen, Science 2013, Mossadegh-Keller-Sarrazin et al., Nature 2013, Molawi et al., JEM 2014, Soucie et al., Science 2016, Matcovitch-Natan et al., Science 2016, Imperatore et al., EMBO J. 2017, Mossadegh-Keller et al., JEM 2017, Delaval, Cell Stem Cell 2020). The chair uses a broad spectrum of molecular, genetic, histological and imaging techniques in combination with in vivo and in culture model systems. Further information: https://www.crt-dresden.de/research/research-groups/core-groups/crtd-core-groups/sieweke-stem-cell-and-macrophage-biology/ and http://www.ciml.univ-mrs.fr/science/lab-michael-sieweke/stem-cell-and-macrophage-biology-0. The CRTD is one of the world’s leading Regenerative BioMed centres 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 position provides many opportunities to interact with other researchers in regenerative medicine, immunology, cell biology and biotechnology at the CRTD and neighbouring institutes on the campus. Research areas include haematology and immunology, diabetes, neurodegenerative diseases, bone and cartilage replacement. Research at the CRTD is supported by access to high end platforms on flow cytometry, advanced imaging, deep sequencing and genome engineering, among others, through the joint technology platform of the CMCB (information on the joint technology platform is available at http://biotp.tu-dresden.de/biotechnology-platform/).

Tasks: The successful candidate will support the professor in coordinating research projects using mouse-genetics and genomics approaches to understand self-renewal, aging and replicative senescence mechanisms in macrophages and their impact on the health of the surrounding tissue. This will involve the use of existing or newly developed relevant mouse models to analyse epigenetic and gene expression changes. Besides the pursuit of own research projects, the position will include a strong organisational aspect and supervision tasks to assure the scientific and technological infrastructure of the laboratory, including the mouse colony. The successful candidate will also be responsible for the supervision of regulatory compliance. The candidate is expected to maintain a good overview of the technological and scientific literature and to act as reference for less senior lab members.

Requirements: We are looking for a highly motivated, ambitious, effective and interactive candidate with a university and PhD degree in Biological or Biomedical Sciences or related subjects. We are searching for a candidate with strong organisational and personnel management skills, capable of conducting, coordinating and supervising high-profile research projects through active pursuit and supervision of relevant experiments, and through regular interactions with the professor, lab members and collaborators outside the research institute. Applications are invited from highly talented and enthusiastic researchers. Applicants should have excellent interpersonal and communication skills, organisational skills to plan experimental bench work and the ability to work
as part of a team as well as independently when required. Previous experience in experimental application of mouse genetics, molecular and cellular biology techniques for the study of immunology, aging or regeneration is desired but applicants with relevant experience working in other fields will also be considered. Ability to stay on top of the relevant research field is an absolute requirement. Good knowledge of spoken and written English as well as German is required. Experience with state-of-the-art flow cytometry, viral transductions and molecular analysis (RNA and DNA sequencing, ChIPseq) of small cell numbers including single cells is desired. Experience with tissue analysis and imaging is an additional asset.

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 12.05.2020 (stamped arrival date of the university applies) preferably via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de as a single PDF file to jeannette.hoppe@tu-dresden.de or to TU Dresden, CRTD, z.H. Frau Jeannette Hoppe, 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.