

Technische Universität Dresden - Faculty of Electrical and Computer Engineering the Institute of Semiconductors and Microsystems together with the German Cancer Research Center site Dresden, Division “Smart Technologies for Tumor Therapy”



TUD Dresden University of Technology, as a University of Excellence, is one of the leading and most dynamic research institutions in the country. Founded in 1828, today it is a globally oriented, regionally anchored top university as it focuses on the grand challenges of the 21st century. It develops innovative solutions for the world's most pressing issues. In research and academic programs, the university unites the natural and engineering sciences with the humanities, social sciences and medicine. This wide range of disciplines is a special feature, facilitating interdisciplinarity and transfer of science to society. As a modern employer, it offers attractive working conditions to all employees in teaching, research, technology and administration. The goal is to promote and develop their individual abilities while empowering everyone to reach their full potential. TUD embodies a university culture that is characterized by cosmopolitanism, mutual appreciation, thriving innovation and active participation. For TUD diversity is an essential feature and a quality criterion of an excellent university. Accordingly, we welcome all applicants who would like to commit themselves, their achievements and productivity to the success of the whole institution.

Research Associate / PhD Student (m/f/x)

The Faculty of Electrical and Computer Engineering the Institute of Semiconductors and Microsystems together with the German Cancer Research Center site Dresden, Division “Smart Technologies for Tumor Therapy” offers, subject to the availability of resources, a position as Research Associate / PhD Student (m/f/x) (subject to personal qualification employees are remunerated according to salary group E 13 TV-L) starting as soon as possible. The position is limited to 3 years and comprises 65% of the full-time weekly hours. The position offers the chance to obtain further academic qualification (usually PhD).

City: Dresden; Starting date (earliest): At the earliest possible; Duration: limited to 3 years; Remuneration: subject to personal qualification employees are remunerated according to salary group E 13 TV-L; Closing date: 15/09/25

Working field

The aim of the project is to design, model, fabricate and test a wireless micro-sensor which uses magnetic fields for sensing in biological soft tissues. For further information, please visit the research group's website (<https://www.dkfz.de/en/smart-technologies-tumorthérapie/index.php>) and contact Prof. Tian Qiu. Feel free to send informal inquiries. The project is funded by the European Research Council (ERC) Starting Grant VIBEBOT.

Requirements

university degree in Engineering, Applied Physics or relevant subjects is required. An

interest or experience in the fields of microsystem engineering, microdevices and microfluidics, intelligent systems programming and modeling, autonomous control and computer vision are preferred. The successful candidate should be self-motivated and possess excellent English skills, also, be open to discuss new ideas in an interdisciplinary team and be flexible to apply various experimental methods.

Application

TUD strives to employ more women in academia and research. We therefore expressly encourage women to apply. The University is a certified family-friendly university. We welcome applications from candidates with disabilities. If multiple candidates prove to be equally qualified, those with disabilities or with equivalent status pursuant to the German Social Code IX (SGB IX) will receive priority for employment.

Please submit your detailed application with the usual documents by September 15, 2025 (stamped arrival date of the university central mail service or the time stamp on the email server of TUD applies), preferably via the TUD SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single PDF file to nicole.tuerkowsky@mailbox.tu-dresden.de or to: TU Dresden, Professur für Mikrosystemtechnik, Frau Maria Ahnert, Helmholtzstr. 10, 01069 Dresden, Germany. 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>.

More information at <https://stellenticket.de/197430/TUB/>
Offer visible until 15/09/25

