Faculty of Electrical and Computer Engineering

The Institute of Semiconductors and Microsystems, Chair of Microsystems offers, subject to resources being available, within the Group of Mesoscopic 3D Systems a position as

**Research Associate / PhD Student / Postdoc**
(Subject to personal qualification employees are remunerated according to salary group E13 TV-L)

starting at **01.09.2019**. The position is limited for 36 months for PhD Students; proportionally shorter for Postdocs. The period of employment is governed § 2 (2) Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). Balancing family and career is an important issue. The post is basically suitable for candidates seeking part-time employment.

**Tasks:**
- optical design and simulation of diffractive and plasmonically active nanostructures,
- large-are production of corresponding nanostructures on polymeric substrates,
- development of new production concepts in the micro- and nanometer range in cooperation with the research partner,
- design and construction of optical measuring setups for the dynamic and static spectral analysis of microscopic objects,
- conceptual design and evaluation of microfluidic systems,
- regular active participation in scientific events and conferences,
- publication of scientific results.

**Requirements:** university degree in electrical engineering, mechanical engineering, materials engineering, physics or chemistry; interest in obtaining further academic qualification (e.g. PhD/habilitation thesis). We are looking for an expert in the interdisciplinary field of engineering and materials science who motivationally and confidently will realize our challenging project goals in cooperation with a renowned German research institute. Together, we will realize intelligent next-generation microscopic 3D systems.

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

Please submit your comprehensive application including the usual documents by **14.05.2019** (stamped arrival date of the university central mail service applies) by mail to: **TU Dresden, Fakultät Elektrotechnik und Informationstechnik, Institut für Halbleiter- und Mikrosystemtechnik, Professur für Mikrosystemtechnik, Herrn Dr. Robert Kirchner, Helmholtzstr. 10, 01069 Dresden** or 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 robert.kirchner@tu-dresden.de. 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](https://tu-dresden.de/karriere/datenschutzhinweis)