

The **Graduate School “Hydrogel-based Microsystems” (GRK 1865)** of TU Dresden and Leibniz-Institute of Polymer Research Dresden (IPF), funded by the German Research Foundation (DFG) in 2013 offers as of **October, 2016** several positions as

Research Fellow (PhD position)

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

which entail 50% - 75% of the fulltime weekly hours fixed-term for up to three years. The period of employment is governed by § 2 Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position will give you an excellent chance for further academic qualification (e.g. PhD).

Tasks: The GRK 1865 aims at the scientific fundamentals for particular hydrogel materials and properties essentially required for their usage in sensors and actuators. To achieve this goal many shortcomings have to be solved which hinder or even avoid the application of hydrogels in technical applications yet. On the one hand, particular materials and manufacturing processes are required which make the hydrogels suitable for these purposes (relevant functionality; high sensitivity, selectivity and long-term stability; fast response time). On the other hand, these materials and processes will be used for dedicated microsystems (e.g. long-term-stable pressure-compensated pH sensors, biochemical sensors, chemical transistors, micro fluidic synthesis processors).

Requirements: university degree (Diploma, M.Sc. or equivalent qualification) in electrical engineering, mechanical engineering, chemistry, physics or related disciplines. With its aspects of micro system technology, structural mechanics, fluid mechanics, and chemistry the research program of our GRK requires scientists educated interdisciplinary within all of these many scientific fields.

For details, please, visit our website at https://tu-dresden.de/die_tu_dresden/fakultaeten/fakultaet_elektrotechnik_und_informationstechnik/ife/dfg1865

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

Please send your application (including a cover letter describing your research interests and indicating the preferred project, curriculum vitae, scanned certificates, letters of recommendation) by **07.06.2016** (stamped arrival date of the university central mail service applies) preferably via e-mail to baerbel.knoefel@tu-dresden.de (Please note: we are currently not able to receive electronically signed or encrypted data.) or to **TU Dresden, GRK 1865, Herrn Prof. Gerlach, 01062 Dresden, Germany**. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.