



Universität Potsdam

Job Announcement

Young, modern, and research oriented... the University of Potsdam has firmly established itself within the scientific landscape since its founding in 1991. Nationally and internationally renowned scientists teach and perform research here at Brandenburg's largest university. The University of Potsdam is successful in acquiring third-party funds, delivers outstanding performance in technology and knowledge transfer, and has a very service-oriented administration. With about 20,000 students studying at three campuses – Am Neuen Palais, Griebnitzsee and Golm – the University of Potsdam is a prominent economic factor and engine of development for the region. The University of Potsdam has a total of about 2,750 faculty and staff members and is located in one of Germany's most scenic areas.

innoFSPEC Potsdam, the Innovation Centre (ZIK) for fibre-based Spectroscopy and Sensing, is a joint initiative of the Physical Chemistry Group at the University of Potsdam (UPPC) and the Leibniz Institute for Astrophysics Potsdam (AIP). Subject to the grant approval decision UPPC invites applications for:

**2 Postdoctoral Scientist/Wissenschaftlicher Mitarbeiter
(40 hours per week = 100 %)
or
PhD Student /Doktorand
(20 up to 26,7 hours per week 50 – 67 %) positions
Requisition No.: 157/2017**

The salary is determined by the collective bargaining agreement for public employees in Germany (TV-L 13 Ost). These are temporary positions up to 3 years.

innoFSPEC has set out to explore new frontiers in fiber-optical chemical sensing and multichannel spectroscopy. innoFSPEC provides excellent experimental facilities in a thriving interdisciplinary environment. Successful candidates will join the **Research Group “Innovative Fiber-Optical Sensing”** as soon as possible. The project will focus on the **experimental analysis of optical properties of highly scattering and polydisperse liquid dispersions consisting of particles or droplets**. More details about the ZIK innoFSPEC can be found under www.innofspec.de.

Candidates should have a **Diploma, Master or PhD in chemistry (Chemie), physics (Physik), applied mathematics (Angewandte Mathematik), engineering (Ingenieurwissenschaften)**, or a related discipline, including experience in one or more of the following fields:

- Laser spectroscopy and optical sensing
- Light scattering
- Fibre-optical instrumentation and photonics
- Radio frequency electronics

- Programming for instrument control and modelling (e.g. LabView, C++)
- Modelling of radiative transport in strongly scattering materials (MC-simulation, analytical description)
- Instrumental analytics (particle sizing, refractive index measurements, etc.)
- Synthesis of inorganic and polymer dispersions

All applicants are expected to possess **high interdisciplinary research interest**, and a **willingness to travel** (contribution to conferences etc.).

Under the laws of the federal state of Brandenburg, employees under this contract are permitted to dedicate at least 33% of their contract time to their own research. Potsdam University strives for a balanced gender ratio in all occupational groups. Applicants with disabilities will be given preference in case of equal suitability. Applicants with an immigration background are specifically encouraged to apply.

Applications (including motivation letter, CV, certificates, list of publications) should be submitted before September, 30th, 2017. Submissions later-on are possible, but consideration cannot be guaranteed. Applications per E-Mail (preferred) should be addressed to University of Potsdam, Physical Chemistry - innoFSPEC, Am Muehlenberg 3, D-14476 Potsdam, Germany, E-Mail: bressel@uni-potsdam.de

For further information please contact: Dr. L. Bressel (bressel@uni-potsdam.de) or Prof. Dr. H.-G. Löhmannsröben (loehm@uni-potsdam.de).

Potsdam, 29.08.2017