

Job advertisement

Vacancy ID: 129/2021

Closing date: 23 May 2021



**FRIEDRICH-SCHILLER-
UNIVERSITÄT
JENA**

Friedrich Schiller University is a traditional university with a strong research profile rooted in the heart of Germany. As a university covering all disciplines, it offers a wide range of subjects. Its research is focused on the areas Light–Life–Liberty. It is closely networked with non-research institutions, research companies and renowned cultural institutions. With around 18,000 students and more than 8,600 employees, the university plays a major role in shaping Jena's character as a cosmopolitan and future-oriented city.

The Institute of Physical Chemistry within the LPI seeks to fill the position of a

Doctoral Researcher (m/f/d) Photonic data science

commencing on the earliest possible starting date (preferred 1 July 2021)

The "Leibniz Center for Photonics in Infection Research" (LPI) in Jena is an open user center where photonic solutions for diagnostics, monitoring and experimental therapy in infections are researched and developed into functional solutions with industry. The LPI was jointly applied for by the Leibniz Institute for Photonic Technologies Jena e.V. (Leibniz-IPHT), the Leibniz Institute for Natural Product Research and Infection Biology - Hans Knöll Institute (Leibniz-HKI) as well as the University Hospital Jena and the Friedrich Schiller University Jena under the patronage of the Leibniz Association. The PhD student for photonic data science researches methods for extracting biomedical information from photonic data at LPI.

Your responsibilities:

- Investigation of data pre-treatment and data standardization via inverse modeling for different photonic techniques
- Implementation and exploration of adapted machine learning techniques for spectral technologies and imaging methods
- Investigation of model interpretation techniques and model transfer techniques / transfer learning
- Research on data fusion techniques of different data

Your profile:

- Master's degree in scientific, mathematical or computer science fields
- Knowledge of data science, data simulation, and data
- Experience with programming languages such as Python, R or Matlab
- Good English language skills are a prerequisite
- Experience with photonic data, such as spectroscopic data and optical image data, would be desirable

We offer:

- An exciting/varied/interesting field of employment / Autonomous work at one of the largest employers in Thuringia / An exciting and varied scope of activities with creative freedom
- Interdisciplinary research at the interface between biology, medicine, optics, and data science
- Excellent equipment and infrastructure
- An interesting position at an international level / Participation in international conferences
- A Graduate Academy for doctoral candidates and postdocs;
- A family-friendly working environment with a variety of offers for families: University Family Office 'JUniFamilie' and flexible childcare ('JUniKinder');
- University health promotion and a wide range of university sports activities;



- Remuneration based on the provisions of the Collective Agreement for the Public Sector of the Federal States (TV-L) at salary scale 13 – depending on the candidate's personal qualifications—, including a special annual payment in accordance with the collective agreement.

The advertised position is limited to 4 years.

This is a part-time position with 65% of the working hours of a full-time employee (26 hours per week).

Candidates with severe disabilities will be given preference in the case of equal qualifications and suitability.

Further information: PD Dr. Thomas Bocklitz, e-mail: thomas.bocklitz@uni-jena.de

Are you eager to work for us? Then submit your detailed application by email (one PDF file), stating the vacancy ID 129/2021 by 23 May 2021 to:

sophie.thamm@uni-jena.de

For further information for applicants, please also refer to www4.uni-jena.de/stellenmarkt_hinweis.html (in German)
Please also note the information on the collection of personal data at www4.uni-jena.de/en/jobs_information_collecting_personal_data.html