

Job advertisement

Vacancy ID: 119/2021

Closing date: 9 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.

Friedrich Schiller University Jena seeks to fill the following position at the Heinz Nixdorf Chair for Distributed Information Systems at the earliest possible date:

Doctoral Position (m/f/d)

Background:

The use of deep learning techniques has gained tremendous momentum due to its enormous improvements in the performance and accuracy of tasks in a variety of applications. With the increasing complexity of deep learning methods, new challenges arise that address the problems of reproducibility and the explainability of deep learning methods. This project which is part of thurAI and associated with the Thüringer Zentrum für Lernende Systeme und Robotik (TZLR), aims to build a semantic-based solution for DL Model Management to track, describe, and visualize the provenance of end-to-end ML pipelines with the help of Knowledge Graphs.

Your responsibilities:

- Build a semantic-based solution for DL Model Management to track, describe, and visualize the provenance of Deep Learning pipelines with the help of Knowledge Graphs.
- Extend the solution to DL models based on FAIR data principles
- Apply results from above to exemplary thurAI data sources and improve the approaches based on evaluation results.
- Work closely with the thurAI computer scientists for the project Explainability.
- Writing and publishing scientific papers in peer-reviewed journals and conferences.
- Work on an own scientific qualification project, .e.g. doctorate

Your profile:

- an MSc degree in Computer Science
- Expertise and experience in Machine Learning/ Deep Learning
- Expertise and experience in Semantic Web Technologies is a plus
- Experience in software development
- Excellent English communication skills (spoken and written)
- Team-oriented and strong organizational skills

We offer:

- Work in a dynamic, international, and interdisciplinary environment in the beautiful city of Jena
- Flexible working hours (flexitime and, if applicable, teleworking)
- A comprehensive further and continuing education programme and individual qualification and development measures
- A family-friendly working environment with a variety of offers for families: University Family Office 'JUniFamilie' and flexible childcare ('JUniKinder');



- Attractive fringe benefits, e.g. Job Ticket (benefits for public transport), and an occupational pension (VBL)
- Remuneration based on the provisions of the Collective Agreement for the Public Sector of the Federal States (TV-L) at salary scale E13 —depending on the candidate's personal qualifications—, including a special annual payment in accordance with the collective agreement.

The advertised position is a fixed term position with a duration of 3.5 years. This is a full-time position (40 hours per week).

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

All applications should include:

- Cover letter in English describing motivation for the project, research interests and relevant experience
- complete curriculum vitae including names and contact details of at least two scientific references
- digital copy of bachelor and master certificates or equivalent

Are you eager to work for us? Then submit your detailed written application, by email (one PDF file), stating the vacancy ID 119/2021 by 9 May 2021 to:

sheeba.samuel@uni-jena.de

Since all application documents will be duly destroyed after the recruitment process, we ask you to submit only copies of your documents. For further information for applicants, please also refer to [www4.uni-jena.de/Job_portal \(in German\)](http://www4.uni-jena.de/Job_portal_(in_German)). Please also note the information on the collection of personal data at https://www4.uni-jena.de/en/jobs_information_collecting_personal_data-path-18.27.html.