

# Job Advertisement

Reg.-No. 103/2021

Application Deadline 30.04.2021



FRIEDRICH-SCHILLER-  
UNIVERSITÄT  
JENA

The Friedrich Schiller University Jena (FSU) is a traditional and research-oriented university in the center of Germany. As a full university, it covers a wide range of disciplines. It bundles its top-level research in the profile lines Light - Life - Liberty. It is highly interconnected with non-university research institutions, researching 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.

At the Competence Center Digital Research, the following **two positions** are offered **at the earliest date possible**, limited for 5 years:

## Scientific Developers (m/f/d)



MichaelStifelCenterJena  
for Data-Driven and Simulation Science

### Competence Center Digital Research

As part of the Michael Stifel Center Jena (MSCJ, [www.mscj.uni-jena.de](http://www.mscj.uni-jena.de)), the currently emerging Competence Center Digital Research (zedif) will join expertise to strengthen data-driven and simulation science in Jena. It is the first point of contact for all questions concerning digitized research within the FSU and the MSCJ. It covers the range from mere service to enabling interdisciplinary collaborative research.

The two positions will complement existing expertise in **High Performance Computing** (HPC) as well as add the topic of **Data Exploration and Visualization** to the existing expertise in the Competence Center. Alternatively, an addition from **other subject areas** matching the location and the tasks of the Competence Center is **also possible**.

### Your responsibilities:

- High Performance Computing
  - Support of working groups involved in MSCJ regarding HPC demands in close collaboration with the University Computer Center
  - Interdisciplinary, application oriented service and research in close collaboration with the working groups and projects, in particular regarding parallelization, porting and performance optimization of scientific software, especially for distributed storage as well as for heterogeneous systems (including graphic cards)
  - Provision, adaptation and development of HPC techniques, tools and services for the efficient use of parallel computing systems for dedicated applications at the FSU and the MSCJ
- Data Exploration and Visualization
  - Support of working groups involved in MSCJ with innovative technologies for visualization and exploration of massive amounts of data
  - Interdisciplinary, application oriented service and research in close collaboration with the working groups and projects, in particular regarding visualization of information, scientific visualization and visual analytics
  - Development and adaptation of procedures for visualization and data exploration for dedicated applications at the FSU and the MSCJ



- Both positions
  - Involvement in the establishment of the Competence Center; Establishment of connections within the FSU and the MSCJ
  - Participation in the acquisition of third-party funds for the establishment of the team and for the support of working groups and projects
  - Conceptualization and implementation of measures for facilitating collaborations among working groups; Provision of tools and administration of services from computer science for various disciplines
  - Handling of requests (general counseling, simple applications and counseling on transfer) as well as forwarding requests to the departments with the respective responsibility at FSU
  - Conceptualization and implementation of measures for training
  - In addition, it is expected that the work on a scientific qualification is pursued, e.g., in science management. Respective offers can be found, for example, at the Graduate Academy of the FSU Jena and are supported by the Competence Center.

**Our requirements:**

- High Performance Computing
  - University degree (diploma, master) in a mathematics / computer science related discipline or an engineering / natural sciences related discipline; PhD degree preferred
  - Proven implementation competence in the development of HPC technologies (e.g., parallel algorithms and programming, performance optimization, tools for analyzing scientific software) as well as their application in dedicated interdisciplinary collaborations
  - Research experience in at least one area of HPC or HPC-related in another research field, proven by scientific publications
- Data Exploration and Visualization
  - University degree in a discipline appropriate for the position (e.g., STEM disciplines, Digital Humanities); PhD degree preferred
  - Proven implementation competence in the development of software tools for visualization and data exploration
  - Research experience in at least one area of visualization and data exploration, proven by scientific publications
- Both positions
  - Experience with interdisciplinary collaborations in a broad sense
  - Experience with the acquisition of third-party funds is advantageous
  - Excellent communication skills among various scientific disciplines
  - Proficiency in English; preferably with additional communication skills in German



**We offer:**

- The opportunity to actively participate in the development of the Competence Center and to play a significant role in shaping its future
- An exciting field of activities providing diverse and highly interesting tasks as well as creative leeway for personal initiative
- An interdisciplinary and interprofessional network of potential partners for collaboration, interlinking the university with external research organizations as well as science with economy
- A family-friendly working environment with flexible working options as well as a university scheme for the promotion of health and well-being
- Salary in accordance with the Collective Agreement for the Public Sector of the Federal States (TV-L) depending on the personal qualifications up to **salary scale E13**

The full time position (40 h per week) is limited to 5 years.

Severely disabled applicants with equal qualification and aptitude are given preferential consideration.

Please send your application (cover letter) including the required supporting documents (curriculum vitae in tabular form, certificates, publication list) providing the Reg.-No. 103/2021 in a single .pdf-file via e-mail **until 30.04.2021** to Dr. Bettina Färber ([bettina.farber@uni-jena.de](mailto:bettina.farber@uni-jena.de)).

For further information and in case of questions do not hesitate to contact:

- Dr. Bettina Färber: [bettina.farber@uni-jena.de](mailto:bettina.farber@uni-jena.de) (scientific coordinator of MSCJ) or
- Dr. Frank Löffler: [frank.loeffler@uni-jena.de](mailto:frank.loeffler@uni-jena.de) (head of the Competence Center)

For further information for applicants please also refer to: [www.uni-jena.de/stellenmarkt\\_hinweis.html](http://www.uni-jena.de/stellenmarkt_hinweis.html)  
For information on collecting personal data please refer to: [www.uni-jena.de/Universität/Stellenmarkt/Datenschutzhinweis.html](http://www.uni-jena.de/Universität/Stellenmarkt/Datenschutzhinweis.html)