

ScaDS.AI (Center for Scalable Data Analytics and Artificial Intelligence) Dresden/Leipzig is a center for Data Science, Artificial Intelligence and Big Data with locations in Dresden and Leipzig. It is one of five new AI centers in Germany funded under the federal government's AI strategy and is established as a permanent research facility with currently more than 60 PIs. To promote research excellence in the field of AI and data science, ScaDS.AI supports early career research group leaders in this field that complement and extend our current research areas.

At the **Center for Interdisciplinary Digital Sciences**, the Department **ScaDS.AI** offers a thematic call to explore AI-based learning:

Junior Research Group "Situating AI-based Mentoring" (m/f/x)

(subject to personal qualification PIs are remunerated¹ according up to salary group E 15 TV-L, subject to personal qualification Research Associates are remunerated¹ according to salary group E 13 TV-L)

The applicants should demonstrate research work on interactive and/or AI-based systems in situated teaching and learning processes (in formalized education or another area of knowledge cooperation). These can include, for example, working with learning progress data and their individualized ad hoc interpretation in real time, in the context of impact-based pedagogical interventions via different (mobile, physiological, graphic, physical, etc.) interfaces. Applications can be found, for example, in the form of AI-supported learner evaluation, as a comparison between learning and knowledge levels, when using process-accompanying data on learning activity. Other fields of work concern trustworthy infrastructure when working with learner data, in the sense of an open learning record store. The question of possible "new" data types relating to the generation of data through data and their use at meta and micro level is also being researched. The overarching focus can be the disadvantage-free AI-supported design of the teaching and mentoring processes and their evaluation on the basis of process data, related to both human and machine learners, and follows up on current ethical debates. Further information on the focal points in the competence center can be found at <https://www.scads.ai/nachwuchsforschungsgruppen>.

DURATION AND SCOPE

Applications are invited for this junior research group that shall start in 2022 or early 2023 with a duration of 24 to 36 months. An extension after a positive evaluation for up to 36 months is possible. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). A junior research group must consist of a junior research group leader and research assistants – depending on the duration of the group and the quality of the research proposal, up to two additional positions for research assistants will be funded by ScaDS.AI. The funding will include traveling expenses as well as consumables. Earliest start of the funding: September 1, 2022.

ELIGIBILITY

Outstanding researchers (university degree and for the PI an additional PhD degree (or equivalent)) with a proven research track record in data science and AI including current junior professors or group leaders. We are primarily looking for international applicants.

¹ The remuneration can be taken from the current remuneration table:
https://www.lsf.sachsen.de/download/Tarif/Entgelttabelle_TV-L_ab_01.01.2021.pdf

APPLICATION DOCUMENTS

Your application should contain:

- cover Letter,
- a scientific proposal of about five pages for the time period planned at ScaDS.AI,
- detailed CV, including list of publications, work in progress, research service, mentoring experience and teaching experience,
- CVs of research assistants (if applicable),
- two to three letters of reference.

SELECTION PROCEDURE

ScaDS.AI implements a selection committee that consists of a number of PIs from the two locations of ScaDS.AI. This involves the research area leads and additionally one PI from each research area. Additionally, an equal opportunities officer will be part of the committee.

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

Please submit your application with the usual documents under the job ID "**JRG 002**" until **August, 29 2022** (stamped arrival date of the university central mail service applies), preferably via the TU Dresden SecureMail Portal <https://securemail.tu-dresden.de> by sending it as a single pdf document to scads.ai@tu-dresden.de or to: **TU Dresden, CIDS, Herrn Prof. Dr. Wolfgang E. Nagel, Helmholtzstr. 10, 01069 Dresden, Germany**. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

Reference to data protection: Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: <https://tu-dresden.de/karriere/datenschutzhinweis>.