

"Education is the key to the world" is the motto of the **Frankfurt University of Applied Sciences (Frankfurt UAS)**. Internationality, diversity and social responsibility are our values. Our institution is a place of lifelong learning as well as an innovative development partner of the region. Our more than 15,500 students and 970 employees in teaching, research and central administration are responsible of it.

Faculty 2: Computer Science and Engineering, research group Industrial Data Science (INDAS), is looking to fill the following position as soon as possible and for a **period of three years**:

**Research Associate (m/f/d) in the research project „INDAS“
PhD position on the topic of sensor data analysis in the context of Industry 4.0**

(Part-time 65% = 26 hours/week)

Referenz no. 029/2023

The Industrial Data Science (INDAS) research group performs interdisciplinary research with researchers from mechanical engineering and computer science on practical issues in the field of Industry 4.0 using primarily machine learning algorithms. We work very closely with partners from industry. The machine learning methods include deep learning especially for time series. We work closely together with related research groups that also analyse sensor data, such as Internet of Things and Human Activity Recognition.

Responsibilities:

Participation in an innovative research project in an interdisciplinary, English-speaking team with attractive industry partners;
active independent research on machine learning processes for the analysis of sensor data within the context of Industrie 4. 0;
collaboration in setting up a suitable software environment;
publications in German and English;
presentations at (inter-) national conferences;
teaching 2 semester hours per week;
supervision of internships and seminars as well as supervision of Bachelor and Master students;
through cooperative doctoral studies at the Universidad de Cádiz at the Departamento de Ingeniería Informática, Escuela Superior de Ingeniería (Spanish not required)
possibility of scientific exchange and stay in Cádiz.

Qualifications:

Completed scientific university studies (master's degree/university diploma) in computer science or related fields;
knowledge of mathematics (engineering mathematics, statistics, numerics);
sound experience in at least one relevant programming language (e.g. C++, Python);
knowledge of machine learning is an advantage (PyTorch, Tensorflow, etc.);
conceptual and analytical skills as well as being goal-oriented;
ability to independently write scientific publications;
good knowledge of German and English;
confident appearance, ability to work independently and on one's own responsibility as well as willingness to work and ability to work in a team;
flexibility and a pronounced willingness to engage in subject-related further education.

We offer:

Interesting, creative tasks in a dynamic and varied working environment;
good training and regular feedback as well as an open and friendly working atmosphere;
attractive further training and development opportunities;
adequate wages (annual bonus) as well as other attractive social benefits (trust-based working hours,
Landesticket Hessen, pension scheme (VBL), saving schemes);
a secure job at the service of the state of Hesse offering a work-life balance;
an extensive range of social, cultural and sport activities within the university.

The salary is defined according to the **German E13 TV Hessen scale**.

The position is open to all persons, irrespective of gender. The Frankfurt University of Applied Sciences would like to increase the proportion of women in areas in which they are underrepresented and thus applications from women are particularly welcome and will be treated with priority if they have the same qualifications and as long as there are no clear reasons which make a fellow applicant more suitable. Applicants with disabilities will be employed preferentially if equally qualified. As a holder of the "Family-friendly university" certificate, the university takes into account each individual family situation when organising working hours.

We place great importance on protecting your personal data. Therefore, we inform you in accordance with the relevant data protection regulations about the collection, processing and use of your data in the context of your application. You can find further information on the general data protection regulations of the Frankfurt UAS at (only available in German):

<https://www.frankfurt-university.de/index.php?id=5184>

Do you have any questions regarding this vacancy?

Please contact Prof. Dr. Jörg Schäfer: jschafer@fb2.fra-uas.de

Applications comprising all usual documents (**one PDF file**) must be sent with **reference to the job advertisement number by 23.04.2023 via email** to bewerbungen@hr.fra-uas.de or via post (please send only **copies** of the documents, since they cannot be returned) to:

Frankfurt University of Applied Sciences
Human Resources
Nibelungenplatz 1
60318 Frankfurt
www.frankfurt-university.de