FRIEDRICH-SCHILLER-UNIVERSITÄT JENA

iDiv

German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig

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.

iDiv, the German Centre for Integrative Biodiversity Research Halle-Jena-Leipzig, invites applications to **5 doctoral researcher positions in its 6th flexpool call** from spring 2021 onwards (*see overview in published flexpool general announcement*).

In cooperation with iDiv Halle-Jena-Leipzig and the Computer Vision Group, Institute for Computer Science, Friedrich Schiller University (FSU) Jena seeks to fill the position of a

Doctoral Researcher (m/f/d)

on the flexpool project 5: "Causal Reasoning and Deep Learning for Understanding Changes in the Soil-Plant-Climate Interactions"

commencing at the earliest possible starting date and initially limited until 30 September 2021. An extension for further 2.5-3 years is possible and dependent upon successful renewal of DFG funding for iDiv (evaluation in spring 2021).

Your responsibilities:

- Carry out research in the interdisciplinary areas of machine learning, causal inference, and environmental science.
- Develop methods and implement tools for analysing ecological time series data.
- Empirical evaluation and improvement of the methods in close connection with the partners from ecology.
- Writing and publishing scientific papers in peer-reviewed journals.
- Presenting results at national and international conferences.

Your profile:

- Master's or equivalent degree in computer science, machine learning, applied mathematics, statistics, or related disciplines, preferably additional background and/or experience in ecology.
- Experience in deep learning and causal analysis.
- Strong programming skills in Python, MATLAB, or C.
- Interest in working with environmental data streams.
- 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. Located in the heart of Germany, Jena is a traditional and lively University town, and with its large percentage of students and researchers, it is right to say: There is no University in Jena, Jena is the University.

- Interdisciplinary research at the interface between machine/deep learning and environmental science.

- The PhD candidates benefit from an inter- and transdisciplinary training and support by the graduate school yDiv (iDiv)

- Depending on the qualification, an upgrade to a full-time employment (100%) is possible after the first year (dependent upon own funding of Computer Vision Group)

- 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.

This is a part-time position with 65% of the working hours of a full-time employee (26h/week). The work place will be at the FSU Jena.

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

Kindly send your application, quoting the reference number 006/2021, via our application portal at https://apply.idiv.de. While we prefer applications via this portal, hard-copy applications may also be sent to:

German Centre for Integrative Biodiversity Research – iDiv (Halle-Jena-Leipzig)
Dr. Christa Genz; Puschstraße 4, D-04103 Leipzig

Submission deadline is 27 January 2021. Selected candidates will be invited to the online Flexpool recruitment symposium on 23/24 February 2021.

All applications should include:
- Cover letter 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 master certificate or equivalent

Queries concerning the application process should be directed to Mrs. Christa Genz (christa.genz@idiv.de), for project-related questions, please contact Professor Joachim Denzler (joachim.denzler@uni-jena.de).

iDiv is committed to establishing and maintaining a diverse and inclusive community that collectively supports and implements our mission to do great science. We will welcome, recruit, develop, and advance talented staff from diverse genders and backgrounds.

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 www.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.