Friedrich Schiller University Jena seeks to fill the following position at the German Centre for Integrative Biodiversity Research (iDiv) at the earliest possible date:

**Postdoctoral Researcher (f/m/d) on the flexpool project 5: ”iKNOW-Leveraging Knowledge Graphs for iDiv and Biodiversity”**

Planned for 2 years and initially limited until 30 September 2021, an extension to the entire 2 years is dependent upon successful renewal of DFG funding for iDiv (evaluation in spring 2021)

100 percent of a full-time position

Salary: up to Entgeltgruppe 13 TV-L, if the personal requirements and tasks are fulfilled

Place of work: Jena

The FSU Jena seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply. Severely disabled persons are encouraged to apply and will be given preference in the case of equal suitability.

**Background**

iDiv, the German Centre for Integrative Biodiversity Research Halle-Jena-Leipzig, invites applications to 6 postdoctoral researcher positions in its 5th flexpool call from fall 2020 onwards (see overview in published flexpool general announcement).

The iKNOW project is highly interdisciplinary and aims to bring together and advance both computer science and biodiversity research. Knowledge Graphs (KGs) are widely regarded as one of the most promising ways to manage and link information in the age of Big Data and have the potential to change the way science is conducted. This is true for biodiversity science, too. Creating KGs is time-consuming and nontrivial, though. With this project, we aim to develop a toolbox to support the low-effort creation of reproducible KGs with detailed provenance information.

We aim to leverage the wealth of unique data sources at iDiv to showcase the applicability of this approach and to create a valuable new resource for biodiversity research. Thus, the project will contribute to progress in both computer science and biodiversity research. Work in the project will be done in close collaboration with the planned PlantHub, a strategic project at iDiv aiming to integrate the numerous comprehensive plant related resources at iDiv.

**Job description:**

- Build a toolbox for (semi-)automatically transforming data sources into KGs and describe the tools semantically. This task will be based on existing tools at iDiv and elsewhere.
- Extend approaches to provenance tracking to match the needs of the project and integrate these into the tools.
- Develop first concepts for automatic selection and combination of tools for transforming a given data source into a KG.
- Apply results from above to exemplary iDiv data sources and improve the approaches based on evaluation results.
- Writing and publishing scientific papers in peer-reviewed journals and conferences.
- Work closely with the PlantHub postdoc as well as computer scientists and biodiversity researchers.

**Requirements:**

- PhD or equivalent degree in a project-related field (e.g. computer science, biodiversity informatics, ecology, environmental sciences)
- Expertise and experience in Semantic Web Technologies, in particular Knowledge Graphs
- Expertise on provenance management and/or workflows is a plus
- Experience in software development
• Interest and ability in interdisciplinary work bridging Computer Science and applications in ecology or environmental sciences
• Excellent English communication skills (spoken and written)
• Team-oriented and strong organizational skills

Kindly send your application, quoting the reference number 250/2020, 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
Deutscher Platz 5e, D-04103 Leipzig

Submission deadline is 10 September 2020. Selected candidates will be invited to the online joint recruitment symposium on 28 September until 29 September 2020.

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 master and PhD 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 Birgitta König-Ries (birgitta.koenig-ries@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.

Please note that applying via email is not entirely secure under data protection law. The sender assumes full responsibility.
Please consider our application information: http://www.uni-jena.de/stellenmarkt_hinweis.html
Please also note the information on the collection of personal data on:
www.uni-jena.de/Universitat/Stellenmarkt/Datenschutzhinweis