iDiv German Centre for Integrative Biodiversity Research

HELMHOLTZ CENTRE FOR ENVIRONMENTAL RESEARCH – UFZ

UNIVERSITÄT LEIPZIG

Reference file number 156/2018

Leipzig, 2 July 2018

The **German Centre for Integrative Biodiversity Research (iDiv)** is a DFG National Research Centre located in Leipzig and jointly hosted by the Martin Luther University Halle-Wittenberg (MLU), the Friedrich-Schiller-University Jena (FSU), the Leipzig University (UL) and the Helmholtz Centre for Environmental Research (UFZ). Its central mission is to promote theory-driven synthesis and data-driven theory in the emerging field of Biodiversity Science. The concept of iDiv encompasses the detection of biodiversity, understanding its emergence, exploring its consequences for ecosystem functions and services, and developing strategies to safeguard biodiversity under global change.

The Leipzig University offers the following position, desired starting date: 1 October 2018:

Postdoctoral researcher
"Mapping global land-use patterns and recent historical changes"

(limited until 30 September 2020)

Salary: Entgeltgruppe 13 TV-L

Detailed information on global land use patterns and dynamics is crucial for biodiversity, climate, food security, and many other research fields. With the emergence of new remotely-sensed data, there are new opportunities for mapping multiple land-use dimensions as mutually consistent time-series. To develop land-use datasets using cutting-edge methodologies in a highly interdisciplinary and collaborative environment, we offer an exciting two-year Postdoc position at the German Centre for Integrative Biodiversity Research Halle-Jena-Leipzig (iDiv). The project is supervised by Dr. Carsten Meyer (head of iDiv *Macroecology & Society* group), Dr. Isabel Rosa (iDiv *Biodiversity Conservation* group), and Prof. Ralf Seppelt (head of UFZ department for *Computational Landscape Ecology*).

Job description:

- developing spatiotemporal analysis and modelling routines to create annual global time-series of land-use variables for a broad range of thematic variables pertaining to the extent, intensity, and management type of the three dominant classes of human land-use (cropping, grazing, and forestry)
- integrating, harmonizing, and further advancing routines for downscaling and interpolating reported land-use statistics via state-of-the-art remotely-sensed covariate layers (e.g. land cover)
- leading the development of open science and collaborative IT solutions as part of longer-lasting tools for global land-use analysis
- leading the dissemination of project results via journal publications, conference presentations, media presentations, etc.
- contributing to the management of the collaborative project (co-organization of project meetings, etc.)

Requirements/expected profile:

- successfully completed PhD in a project-related field, and a solid (geo)informatics-related education at some point in your career
- high motivation and skills to develop efficient solutions for large data processing tasks
- prior experience in command-line based geo-computation, open source programming languages (ideally in a Linux environment), and version control (e.g. Git) is expected
- proactive, team-oriented and having strong communication and written skills in English

We offer:

- highly dynamic working environment
- regular close interaction with an international consortium of land-use mapping experts (incl. Profs. Steffen Fritz, Marius Gilbert, Tim Robinson, Peter Verburg) as well as researchers at iDiv and UFZ, notably collaboration with the group of Prof. Lars Bernhard (Geo-informatics at TU Dresden) and iDiv's informatics units
- access to the high-performance cluster resources of iDiv/UFZ

Applications are accepted **until August 6, 2018**

Applications should include:

- cover letter describing motivation, research interests & relevant experience
- curriculum vitae, including a detailed account of relevant technical skills/prior experience
- access to one of your recent IT projects in a field related to this position (e.g. links to GitHub depository)
- digital copy of your best first-authored journal publication or conference paper
- one letter of recommendation as well as contact details of two scientific references
- digital copy of PhD certificate

Applications with reference file number **156/2018** are accepted via our application portal under apply.idiv.de. We prefer applications via our application portal, hard copy applications can be sent to German Centre for Integrative Biodiversity Research – iDiv; Dr. Hanna Weise; Deutscher Platz 5e; 04103 Leipzig. For queries on the application process, please contact Dr. Hanna Weise (hanna.weise@idiv.de); for research project questions, contact Dr. Carsten Meyer (carsten.meyer@idiv.de).

Applying via email is questionable under data protection law. The sender assumes full responsibility.

Severely disabled persons are encouraged to apply and will be given preference in the case of equal suitability.

By sending us your application documents you consent to the processing of the data contained within for the purpose of the selection process for the advertised position. You can revoke your consent at any time. The processing takes place exclusively for this selection process and is carried out on the basis of Article 6 of the GDPR (General Data Protection Regulation). This includes passing on data to the members of the selection committee, the HR office, the Commissioner for Equal Opportunities, the Representative Body for Severely Disabled Employees and the Staff Council as part of their organizational or legal responsibilities. Your data will be stored for a maximum of 6 months following completion of the selection process and subsequently deleted.

In accordance with the GDPR you have the right to receive information from the recipient of the application about your personal data, the right to correction, deletion or restriction of processing, as well as a right to object to processing.

If you have any questions, please contact the Leipzig University data protection officer (Mr Thomas Braatz, Augustusplatz 10, 04109 Leipzig, tel.: 03419730081).