Leipzig University seeks to fill the following position at the **German Centre for Integrative Biodiversity Research (iDiv)** Halle-Jena-Leipzig **from 15 July 2021** on the earliest:

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**Student/Research assistant (f/m/d) with programming skills**
Up to 19 hrs / week (depending on your availability)
**until 30.09.2021** (extension subject to confirmation of the DFG financing renewal)
Salary: 12,37 €/h (with bachelor degree); 16,81€/h (with master degree)

Place of work: iDiv in Leipzig (remote working can be discussed)

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### Job description:
We are looking for a group assistant in our scientific group. The assistant will provide the necessary software developments to support research activity linked with gen3sis: an eco-evolutionary simulation engine of populations in dynamic landscapes. The model is available as an R-package and is mostly coded in R, with a few exceptions in C++. More details here: https://CRAN.R-project.org/package=gen3sis and https://github.com/project-gen3sis/R-package .

If you are curious and an independent worker, please consider applying.

### Your Tasks:
1. Create and optimize functions to link gen3sis with individual based models, including compilation of look up tables and statistics (e.g. equilibria points).
2. Expand gen3sis for new functions and links with individual based models.
3. Create parallelization support for ecology-module.
4. Fix and extend gen3sis R-package features.
5. Create scripts for simulating and retrieving data from iDiv clusters.
6. Create pipelines for experimental designs as well as simulated and empirical data comparisons.

### Requirements / expected profile:
1. Bachelor in Computer Sciences or Technical School in Informatics.
2. Advanced R and basic C++.
3. Parallelization and general knowledge of simulation models.
4. Operation of high-performance computing (HPC).
5. English knowledge.

### Supervision:
Renske E. Onstein (renske.onstein@idiv.de) and Oskar Hagen (oskar.hagen@idiv.de).

The preferred starting data is **15 July 2021** or shortly thereafter. **Applications are accepted until the position is filled**. A feedback will be given on the 15 June the earliest.

### Applications should include:
- Brief cover letter describing motivation & relevant experience.
- Tabular curriculum vitae, including a detailed account of relevant technical skills and prior experience
- If applicable, access to one of your recent projects relevant for this position (e.g. paper, GitHub repository).
- Digital copy of BA certificate (or equivalent)

Applications in english should be directed to Dr Oskar Hagen *(*oskar.hagen@idiv.de*)* **in a single PDF** file with reference **"HIWI Research Assistant Evolution & Adaptation"** in the subject line.

Severely disabled persons are encouraged to apply and will be given preference in the case of equal suitability. Please note that applying via email is not entirely secure under data protection law. The sender assumes full responsibility.
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.