

The

German Institute of Human Nutrition Potsdam-Rehbruecke (DifE)

is a member of the Leibniz Association. The institute's mission is to conduct experimental and clinical research in the field of nutrition and health, with the aim of understanding the molecular basis of nutrition-dependent diseases, and of developing new strategies for treatment and prevention (Website: <https://www.dife.de/en/>).

We invite applications to join the Department of **Adipocyte Development and Nutrition** (PI: Tim J. Schulz, PhD) for

1 Doctoral Student (m/f/d) in (Bio-) Informatics

starting **as soon as possible**.

Project description

This interdisciplinary project addresses the physiological regulation of adipocytes and the mechanisms of their formation. In close collaboration with colleagues at the German Center for Diabetes Research (DZD), the successful candidate will work with an interdisciplinary team to explore the genome-wide regulation of stem cells. In close collaboration with the experimental scientists of the department, integrated transcriptomic and epigenomic analyses will be conducted on the single cell level of defined stem cell populations. The goal of this PhD thesis is the development and application of analysis tools to,

- Investigate the role of metabolic disease, i.e. diabetes, in the pathogenesis of the musculoskeletal system using modern informatics technologies
- Develop tools to describe complex biological systems and characterize defined stem cell types in heterogeneously composed tissues

Skills and Requirements

- M.Sc./Diploma degree in an appropriate discipline, e.g. bioinformatics, mathematics, statistics, or in biological sciences with a substantial bioinformatics component
- Pre-existing knowledge in programming and scripting skills (e.g. Python, Perl, R, Java, C++) is of strong advantage
- A background in experimental research is desirable but not required
- High degree of motivation and ability to work in an interactive research environment
- English (spoken and in writing)

The position is available for 3 years. Salaries are paid according to the German federal tariff agreements (remuneration group E 13 TV-L [65%]).

The institute offers a vibrant and interactive research environment, close collaboration with project partners in Berlin, nationally and internationally, state-of-the-art equipment and qualified training and enrolment in a local PhD program.

Please send your documents (cover letter explaining your motivation, CV, copies of degrees/certificates and references) **as a single pdf-file** before **February 15th, 2021** via e-mail to jobs@dife.de.

For further information please do not hesitate to contact:

Prof. Dr. Tim Schulz

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By submitting your application documents, you grant us the right to collect, process, and use your personal data exclusively for the application selection process. For further information about your rights according to the data protection law, please contact the department Human Resources and Social Services (jobs@dife.de).