Conducting research for a changing society: This is what drives us at Forschungszentrum Jülich. As a member of the Helmholtz Association, we aim to tackle the grand societal challenges of our time and conduct research into the possibilities of a digitized society, a climate-friendly energy system, and a resource-efficient economy. Work together with around 6,800 employees in one of Europe’s biggest research centres and help us to shape change!

Data is the new resource of the 21st century and data availability seems endless. Would you like to establish part of the data relationship life cycle for plant science? Then the division of Bioinformatics IBG-4 at the Institute of Bio- and Geosciences at Research Centre Juelich is the right place for you. The division of Bioinformatics (IBG-4) works on and develops methods and algorithms to achieve a fundamental understanding, especially of high-dimensional data and processes in the bio-economy. The IBG-4 focuses on knowledge management and data integration, classical bioinformatics, and machine learning, in particular for the prediction of phenotypes on biological questions concerning transcriptional reprogramming of plants during abiotic stress response, identification of metabolic pathways for secondary metabolites and understanding plant cell wall biosynthesis.

We are offering a

**PhD Position from the field of Data analysis and annotation**

**Your Job:**
- You will work in the NFDI consortium DataPLANT on the definition of standards and ontologies (data matrices, biological parameters, environmental conditions, etc.) and their establishment in the field of scientific evaluation and processing of omics as well as other experimental data
- You will contribute to the development of standards for the annotation of data analysis pipelines
- Answering complex biological questions (e.g. co-regulation, stress responses, etc.) by using the developed ontologies
- You will present the scientific results at project meetings and international conferences and publish them in high-ranking scientific journals

**Your Profile:**
- MSc in Bioinformatics, Informatics, or Life Science
- Strong communication and teamwork skills
• Good knowledge of scripting a scientific programming language, e.g. Python/R and/or Java/Rust C++ for scientific purposes
• Experience with the generation and/or analysis of experimental data and high-throughput data (e.g. NGS, Metabolite Profiling...) from the field of plant or other life sciences is a plus
• Experience with data management and with publishing of high-throughput data is an advantage
• Experience with biological and plant science ontologies and standards is a plus
• Very good English skills, both written and spoken

Our Offer:
We work on the very latest issues that impact our society and are offering you the chance to actively help in shaping the change! We offer ideal conditions for you to complete your doctoral degree:
• Interdisciplinary Data Science and applied bioinformatics in a highly productive research project
• Extensive further training offer
• A wide range of offers for combining work and family
• Flexible working hours, part-time employment with 19.5 working hours per week, and 30 days of annual leave
• A large research campus with green spaces, offering the best possible means for networking with colleagues and pursuing sports alongside work
• Further development of your personal strengths, e.g. through an extensive range of training courses; a structured program of continuing education and networking opportunities specifically for doctoral researchers via JuDocS, the Jülich Center for Doctoral Researchers and Supervisors: https://www.fz-juelich.de/judocs
• Targeted services for international employees, e.g. through our International Advisory Service

The position is initially for a fixed term of 3 years. Pay in line with 65% of pay group 13 of the Collective Agreement for the Public Service (TVöD-Bund) and additionally 60 % of a monthly salary as special payment („Christmas bonus“). Further information on doctoral degrees at Forschungszentrum Jülich including our other locations is available at: www.fz-juelich.de/gp/Careers_Docs

Forschungszentrum Jülich promotes equal opportunities and diversity in its employment relations.
We also welcome applications from disabled persons.