



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 7,500 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 its availability seems boundless. If you're passionate about contributing to the establishment of a crucial segment in the data relationship life cycle for plant science, we invite you to join the Omics-/Database-based Bioinformatics division (IBG-4) at the Institute of Bio- and Geosciences at Forschungszentrum Jülich. IBG-4, led by Prof. Dr. Usadel, specializes in data integration, classical bioinformatics, data science, and machine learning.

The offered position will focus on the ELN-RO project, which has the aim to establish seamless interoperability between Electronic Lab Notebooks and Research Object-Crates (<https://helmholtz-metadaten.de/de/inf-projects/elnro>). This will be achieved by creating a standardized metadata mapping framework and developing tools that enable continuous and efficient recording and exchange of research data and metadata, ultimately enhancing data management, sharing, and reproducibility in the chemical and life sciences.

Are you interested?

We are looking to recruit a

## Research Associate - Data Management and Software Development

### Your Job:

- You will work on the development of (meta)data extraction tools from electronic lab notebooks
- You will create tools for data transformation and integration from electronic lab notebooks to standardized data containers (e.g., RO-Crates)
- You will be involved in the maintenance of other tools from the field of research data management (e.g., Data Management Plan Generator, Ontology Curation Tools)
- You will collaborate closely with domain scientists to ensure that the developed tools and models align with real-world scientific workflows in plant sciences and

We look forward to receiving your application until 14.12.2025 via our

**Online-Recruitment-System!**

**Questions about the vacancy?**

Get in touch with us by using **our contact form.**

Please note that for technical reasons we cannot accept applications via email.

[www.fz-juelich.de](http://www.fz-juelich.de)

chemistry, and demonstrate their application in concrete scientific use cases

- You will present the scientific results at project meetings and international conferences and publish them in scientific journals

#### **Your Profile:**

- Master's Degree or PhD in data science or bioinformatics with strong experience in software development for front-end and back-end solutions and research data management
- Knowledge in programming languages (Python, HTML and JavaScript)
- Profound knowledge and experience with data managements topics such as Electronic Lab Notebooks, ontologies, data containers, FAIR data, etc.
- Knowledge and experience in ontology development / controlled vocabularies as well as data curation is advantageous
- Structured and analytical thinking as well as a systematic, careful working method
- Willingness to complement and collaborate with existing research units at the research center
- Excellent English skills, both written and spoken
- Working knowledge of German is a plus

#### **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 support you in your work with:

- Interdisciplinary data science and applied bioinformatics in a highly productive research project
- **CAMPUS EXPERIENCE:** Our research campus in the countryside creates ideal conditions for collegial exchange and sporting activities right on site. Our cafeteria offers a wide range of options—you can enjoy a relaxing lunch break with a lake view
- **KNOWLEDGE & FURTHER TRAINING:** Your professional development is important to us – we provide targeted, individual support
- **VACATION:** You will receive 30 days of vacation (depending on the chosen working time model) plus additional days off (e.g. between Christmas and New Year's)
- **WORK-LIFE BALANCE:** Optimal conditions for balancing work and private life, as well as a family-friendly company policy. The option of flexible working (in terms of location) is generally available after consultation and in line with upcoming tasks and (on-site) appointments
- **FLEXIBILITY:** Flexible working time models, including options close to full-time ( <https://go.fzj.de/near-full-time> ), allow you to tailor your working hours to suit your individual needs
- **SUPPORT FOR INTERNATIONAL EMPLOYEES:** Our International Advisory Service makes it easier for international employees to get started
- **FAIR REMUNERATION:** Depending on your existing qualifications and the tasks assigned to you, you will be classified in pay grade 13 of the TVöD-Bund (Collective Agreement for the Public Service). All information on the TVöD-Bund collective agreement can be found on the BMI website: <https://go.fzj.de/bmi.tvoed> The monthly salaries in euros can be found here: <https://go.fzj.de/bmi.tvoed.entgelt>
- **FIXED-TERM:** The position is limited to 2 years but with the prospect of extension

In addition to exciting tasks and a collegial working environment, we offer you much more: <https://go.fzj.de/benefits>

We welcome applications from people with diverse backgrounds, e.g. in terms of age, gender, disability, sexual orientation / identity, and social, ethnic and religious origin. A

diverse and inclusive working environment with equal opportunities in which everyone can realize their potential is important to us.

Further information on diversity and equal opportunities: <https://go.fzj.de/equality>