



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 7,250 employees in one of Europe's biggest research centres and help us to shape change!

Would you like to contribute to solutions to climate change and resource scarcity? Work with us at the Institute of Bio- and Geosciences - Plant Sciences (IBG-2) on innovative use, production and technology concepts related to plants, sustainability and bioeconomy. Conduct interdisciplinary research in international or regional teams using state-of-the-art sensors and measurement concepts. Contribute to over 10 years of experience in plant phenotyping and knowledge-based bioeconomy research.

Innovative practices in agriculture play an important role as part of the structural change initiative BiökonomieREVIER, which develops and implements innovative production concepts based on biological resources in the Rhinish Revier. We want to further expand our infrastructure for phenotyping plants in the field using novel, non-invasive sensor technology and use the existing sensors as part of various scientific projects.

**We are looking to recruit a**

## **Postdoc - Characterization of Plant Growth and Photosynthesis under Organic Photovoltaic Installations**

### **Your Job:**

- Characterize the diurnal and seasonal dynamics of light quantity and quality under experimental plant growth facilities that are equipped with organic photovoltaic installations
- Understand the effects of altered light quality on selected crop traits of plants grown under organic PV with a focus on photosynthesis related traits
- Understand in detail the impacts of altered light patterns on photosynthetic pigments, photosynthetic light reactions and photosynthetic carbon fixation
- Provide feedback to the research consortium on optimizing the balance between energy harvesting by the organic PV installation and plant performance underneath
- Document the results and provide reports to the funding agency

We look forward to receiving your application until 31.03.2024 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)

- Exploit the findings of the projects for scientific papers and present the results to the scientific community
- Supervise students and student projects

**Your Profile:**

- Master Degree and PhD in plant sciences, plant biology, plant physiology, agriculture or other related disciplines
- Solid background in whole plant eco-physiology and/or plant photosynthesis and a good knowledge of methods to measure plant photosynthesis in the greenhouse and field
- Knowledge in using and interpreting chlorophyll fluorescence and gas-exchange methods is highly welcome
- Interest in working at the interface between applied and basic research
- Proven record of publications in a related field and the ability to summarize scientific results in project reports and journals
- Very good English communication and writing skills

**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:

- The candidate will work in an internationally recognized research group in this field offering the candidate the chance to develop their scientific profile
- The project has a basic research and applied dimension giving the candidate the opportunity to exploit the research results on various levels
- Ideal conditions for balancing work and private life, as well as a family-friendly corporate policy supported by our Equal Opportunities Bureau
- Flexible working hours in a full-time position with the option of slightly reduced working hours
- The Forschungszentrum Jülich ([www.fz-juelich.de](http://www.fz-juelich.de)) is one of the largest research centers of Europe and offers a wide range of training and qualification programs.
- Targeted services for international employees, e.g. through our International Advisory Service

We offer you an exciting and varied role in an international and interdisciplinary working environment. Limited until 31.12.2025, with possible long-term prospects. Salary and social benefits will conform to the provisions of the Collective Agreement for the Public Service (TVöD-Bund), pay group EG 13, depending on the applicant's qualifications and the precise nature of the tasks assigned to them.

In addition to exciting tasks and a collaborative working atmosphere at Jülich, we have a lot more to offer: <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.