



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 6,400 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, FZJ) 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 – in the laboratory, greenhouse, field or airborne. Contribute to over 10 years of experience in plant phenotyping and knowledge-based bioeconomy research.

The Institute of Bio- and Geosciences – Plant Sciences (IBG-2) – is offering several

PhD Positions in the graduate program “Quantitative Plant Sciences”

Doctoral theses are offered in the following subject areas, for which you can apply online via the respective link:

Topic 1: Scaling of solar-induced chlorophyll fluorescence from the leaf to the airborne level using point and imaging spectroscopy data (**apply now**)

Topic 2: Plant structure and function acclimation to growth under elevated CO₂ (**apply now**)

Topic 3: Photovoltaics in agriculture: making use of plant responses to artificial competitors (**apply now**)

Topic 4: The influence of adverse environmental conditions on seed traits and early vigor of plants in the next generation (**apply now**)

Topic 5: Screening the dynamics of starch accumulation, remobilization, and seed filling in grain crops (**apply now**)

Topic 6: Plant root water uptake and its dependence on soil types (**apply now**)

Further details on the individual projects can be found on the website.

Requirements for all projects (please attach documents to your letter of application, as only complete applications can be considered)

- A good university degree in a discipline that can contribute in an experimental or theoretical way to one of the above mentioned projects (in Germany 2.0 or better); please also pay attention to the requirements formulated in the individual projects
- At least one letter of recommendation
- A letter of motivation regarding your scientific interests and experience including your specific interest in the selected project(s)
- Enjoy working in interdisciplinary teams
- Very good oral and written English skills

We offer:

The IBG-2 – Plant Sciences – offers a unique, interdisciplinary working environment in which an excellent infrastructure and state-of-the-art plant physiology techniques are developed and applied to meet the major challenges of plant production for a sustainable bio-economy.

Ideal conditions for you to complete your doctoral degree:

- Vibrant international and interdisciplinary working environment in one of the largest research centers in Europe
- World-class infrastructure and expertise in plant phenotyping
- The opportunity to work in a unique interdisciplinary team (scientists, engineers, and technicians) with national and international partners
- Excellent opportunity for professional development, including training courses and participation in mentoring of students (PhD programs of the Research Center and IBG-2) and participation in national and international conferences
- An attractive doctoral degree program within doctoral researchers' platform **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 will be above average 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 http://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.

We look forward to receiving your application until **13.06.2021 via our online recruitment system**.

The interviews take place in June. Depending on the availability of candidates and the current situation (e.g. Corona-related delays in administrative processes or visa issues), the positions will then be filled promptly or in coordination with the responsible scientists.

Please note that for technical reasons, applications cannot be accepted by e-mail.

Questions about the job advertisement?

Please feel free to contact us, mentioning the reference number 2021D-055-060, at karriere@fz-juelich.de.