

## Academic expert in Imaging (f/m/d)

### CEPLAS - Cluster of Excellence on Plant Sciences

Foto: Thomas Josek

The University of Cologne is one of the largest and most research-intensive universities in Germany, offering a wide range of subjects. With its six faculties and its interfaculty centres, it offers a broad spectrum of scientific disciplines and internationally outstanding profile areas, supported by the administration with its services.

CEPLAS conducts fundamental research on complex plant traits of agronomic relevance that impact on yield and adaptation to limited resources. This knowledge underpins novel strategies for designing and breeding plants that react in a predictable way to future challenges (SMART plants).

CEPLAS is dissecting how metabolism, life history, and development are integrated to optimize plant performance. This research will be underpinned by state-of-the-art imaging techniques, including confocal microscopy, light-sheet microscopy and X-ray micro-computed tomography. We are looking for a post-doctoral researcher to coordinate and develop the imaging techniques within the CEPLAS research program. The future candidate will work at the University of Cologne and at the Max Planck Institute for Plant Breeding Research in Cologne.

#### YOUR TASKS

- » The academic expert will be responsible for the development of procedures to use the micro-CT and other microscopes to drive CEPLAS science and will further support CEPLAS researchers with their projects and train in the use of imaging techniques.
- » In addition, the academic expert will be responsible for keeping CEPLAS imaging tools and software up to state-of-the-art level.
- » The academic expert will participate in CEPLAS research and will oversee imaging equipment and method development at the MPIPZ as well as at the UoC and will have office space in both organisations. He/she will also be involved in the training of students within the CEPLAS Graduate School.

#### YOUR PROFILE

- » PhD degree in biology or a related discipline
- » Hands-on experience with microscopy techniques
- » Expert in cutting edge technologies and know-how on various microscopy methods applied in plant-microbe interactions research
- » Experience in image analysis preferably involving volumetric reconstruction of microscopy data
- » Excellent communication skills and experience in interdisciplinary communication
- » Experience with micro-CT is preferable but not essential
- » High degree of self-initiative and individual responsibility
- » Fluency in English, both orally and in writing
- » Willingness to travel between the four CEPLAS institutions

#### WE OFFER YOU

- » An international, interdisciplinary research environment embedded in CEPLAS
- » A comprehensive training program comprised of scientific training possibilities as well as transferable skills training, mentoring, coaching and networking with industry
- » A diverse and fair working environment
- » Support in reconciling work and family life
- » Flexible working time models
- » Occupational health management offers
- » Local transport ticket at a discount for UoC employees

The position is available immediately on a full-time or part-time basis. It is limited until 31.12.2025 with the possibility of being made permanent in the case of a successful evaluation. If the applicant meets the relevant wage requirements and has the personal qualifications, the salary will correspond to pay grade 14 as specified in the States' Tariff Agreement (TVL).

The University of Cologne is committed to equal opportunities and diversity. Women are especially encouraged to apply and will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Lan-desgleichstellungsgesetz – LGG NRW). We also expressly welcome applications from people with disabilities / special needs or of equal status.

Please apply online at: <https://jobportal.uni-koeln.de> with proof

of the required qualifications. The reference number is Wiss 2208-11

Your application should include a cover letter, curriculum vitae, and a short (maximum one page) concept for the development of an imaging platform at CEPLAS.

The application deadline is 09.10.2022.

If you have any questions, please contact Margaret Kox at

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