

EURAXESS vacancy: 10 fully-funded PhD positions in the MSCA Doctoral Network "ROOTED"

A deeper understanding of the interactions between soils and plants, especially at the root zone, where they take up water and nutrients may support sustainable intensification of agricultural production. Research is indicating that a greater understanding of roots and soil functions may lead to increases in crop yields, reductions in greenhouse gas emissions from soils, enhanced productivity in grasslands and reductions in fertilizer requirements to land. However, data gaps remain in our understanding of how plant roots interact with their environment from a physiological and phenotypic perspective. The challenge of ensuring food security provides the impetus for ROOTED (Root Phenotyping Integrated Educational Doctoral Network). ROOTED will apply deep learning and artificial intelligence to speed up data generation in root phenotyping.

Research Field:

Agricultural sciences » Soil sciences

Biological sciences » Botany

Biological sciences » Nutritional sciences

Computer science » Informatics

Environmental science » Earth science

Organisation/Funding Institution: ROOTED Consortium - University College Dublin, Ireland, Helmholtz Centre for Environmental Research, Germany, Aarhus University, Denmark, University of Tartu, Estonia, INRAE, France, Université Catholique de Louvain, Belgium, Forschungszentrum Jülich GMBH, Germany, Wageningen University & Research, Netherlands, Origin Enterprises, Ireland

Location: The 10 Doctoral Researcher positions will be hosted by University College Dublin (UCD), Ireland (ROOTED Coordinator) - 2 positions, Helmholtz Centre for Environmental Research (UFZ), Germany- 1 position, Aarhus University, (AU), Denmark- 1 position, University of Tartu, (UT), Estonia- 1 position, Institut National de la Recherche pour l'agriculture, l'alimentation et l'environnement, (INRAE), France- 1 position, Université Catholique de Louvain, (UCLouvain), Belgium- 1 position, Forschungszentrum Jülich (FZJ), Germany- 1 position, Wageningen University & Research (WU), Netherlands- 1 position, Origin Enterprises, (ORIGIN) Ireland- 1 position

Deadline: 210423

[Learn more](#)

ATSAF Call for applications: MSc Career Exploration Scholarship - Junior Scientists Tandems (JST)

Junior Scientists Tandems (JST) is a MSc Career Exploration Scholarship and part of the ATSAF Academy. It represents an evolution of our established Junior Scientists Program and can use synergies with our PhD Research Scholarships. Furthermore, it expands the promotion of young scientists along scientific career paths in development-oriented agricultural research. The aim of the JST is to inspire young people for development-oriented agricultural research, to qualify them in this field in an internationally competitive manner and rejuvenate and expand the corresponding professional networks.

ATSAF supports MSc students with:

A scholarship for a period of six months

5000 € for MSc students (of any nationality) enrolled at a German university staying at a CGIAR++ center

7000 € for MSc students from a university of an OECD-DAC partner country staying at a German research institution

The opportunity to collect data to complete the Master of Science degree

Administrative support from ATSAF

A Networking & Training Platform with inception trainings, webinars, and forums

In order to be eligible for support, MSc students must fulfill the following requirements:

Completion of at least 1 MSc semester of agricultural sciences or another development-related degree course

Proficiency in English

Supervisor from a German university and a CGIAR++ research center supporting the application and research topic

International liability and health insurance

A high degree of sensitivity towards the culture in the country of assignment

Team playing skills

Willingness to assume responsibility and to work independently

Willingness to engulf in six months of research abroad

Female students and students from universities in OECD-DAC partner countries are particularly encouraged to apply!

If you have any questions or need help with the application procedure, please contact Beatrice Breuer or Sabine Baumgartner (jst@atsaf.de).

Organisation/Funding Institution: ATSAF e.V., Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), German Federal Ministry for Economic Cooperation and Development (BMZ)

Location: Worldwide

Deadline: No deadline, applications are accepted at any time.

[Learn more](#)

ATSAF - CGIAR++ Junior Scientists Program

With around 350 members ATSAF - Arbeitsgemeinschaft für Tropische und Subtropische Agrarforschung e.V. (Council for Tropical and Subtropical Research) connects key players in German development-oriented agricultural research. This includes professors of German universities with a focus on development-oriented agricultural research and a matching teaching concept, that supports the training of young researchers in this field. Contacts to and stays at International Agricultural Research Centers are invaluable in bringing young scientists early into practice.

With our “ATSAF – CGIAR++ Junior Scientists Program” financed by BMZ via giz FIA, we enable students to gain practical experience in project-based scientific work at an International Agricultural Research Center and support them in completing their Master's degree.

Deadline: No deadline, applications are accepted at any time.

[Call for applications](#)

[ATSAF-JSP webpage](#)