

Bioinformatics Postdoctoral Position in the field of plant-microbe interactions (f/m/d)

Institute for Plant Sciences

Foto: Thomas Josef

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.

The position is located in the group led by Professor Zuccaro at the Institute for Plant Sciences. The successful candidate will conduct research within the scope of a DFG-funded Germany-wide Priority Programme (SPP 2125 "DECrypT" <https://ag-zuccaro.botanik.uni-koeln.de/decrypt>). Twenty-five different laboratories have joined forces to generate fundamental insights into the molecular mechanisms that govern plant microbiota establishment and function.

YOUR TASKS

- » Develop and apply computational tools for the analysis of high-throughput sequencing amplicon, (meta)genome and (meta)transcriptome data obtained from synthetic community experiments
- » Advance our understanding on how beneficial and detrimental microbes tightly regulate the expression of effector genes and their function in different plant hosts and in response to other microbes (a cooperation with the DOE Joint Genome Institute "How Beneficial Fungi Regulate Effector Gene Expression" <https://jgi.doe.gov/csp-2020-beneficial-fungi-regulate-effector-gene-expression/>)
- » Closely interact with computer scientists and experimental biologists
- » Employ computational approaches to deepen our understanding of the evolution and functions of plant microbiota

YOUR PROFILE

- » PhD in Computer Science, Bioinformatics, Biostatistics or related field
- » Proficiency in the use of Linux/Unix and proven experience in scripting and software development (e.g. Python, C/C++, Java, R)
- » Experience in the analysis of next generation sequencing data
- » The ability to work in an environment at the interface of biology and computer sciences
- » Excellent oral and written communication skills in English

WE OFFER YOU

- » Exciting research as part of a large consortium
- » A diverse and fair working environment
- » Support in reconciling work and family life
- » Flexible working time models
- » Extensive advanced training opportunities
- » Occupational health management offers
- » Local transport ticket at a discount for UoC employees

The position is to be filled as soon as possible on a full-time basis. It is initially limited to a term of 3 years with the possibility of extension. If the applicant meets the relevant wage requirements and personal qualifications, the salary is based on remuneration group 13 TV-L of the pay scale for the German public sector.

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 (Landesgleichstellungsgesetz – 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 including a CV, a one-page letter of interest and contact information for 2-3 academic references. The reference number is Wiss2103-01. The application deadline is 29.03.2021.