



TRAINEESHIP OFFER

Optimising a web-based tool for analysis of microbiological growth curve data

When? 4 January - 31 March 2027

Where? Cluster of Excellence - Balance of the Microverse

Theoretical Microbial Ecology Group, Prof. Dr. Rosalind Allen

We study how microbes survive, grow and interact in complex and changing environments. We are especially interested in how bacteria respond to antibiotics in the human body, and how microbial communities assemble and function. Our research combines mathematical and computational modelling with microbiological and biophysical experiments.

Traineeship tasks

- Edit pre-existing python code to improve the performance and usability of the tool
- Improve the usability and completeness of the documentation
- Implement new functionalities including machine-learning based analysis of growth curves. This is a computational project.

Requirements

This position is suitable for international master's students with experience in python programming, software engineering, AI, differential equation based dynamical modeling & interdisciplinary communication



Submit your application (including a short motivation letter and CV) to incoming@uni-jena.de by 1 November 2026





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TRAINEESHIP OFFER

Projects on process-informed machine learning and uncertainty quantification in environmental modelling

When? 1 April - 30 June 2027 or 1 September - 31 December 2027

Where? Faculty of Chemistry and Earth Sciences,
Institute for Geography

GIScience Group, Prof. Dr. Alexander Brenning

Internship in the GIScience Group. Projects on process-informed machine learning and uncertainty quantification in environmental modelling (landslides, soils, groundwater pollution) – GENAI-X, RESONATE, ReGeNi.

Traineeship tasks

- Data analysis
- Data visualization
- Implementation and testing of innovative methodological developments

Requirements

This position is suitable for international master's students with experience in statistics / machine learning / artificial intelligence; R / Python; interest in environmental applications. English: B2 level (German is not required)



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TRAINEESHIP OFFER

Imaginamics: Practices and Dynamics of Social Imaging

When? 1 April - 30 June 2027

Where? Friedrich Schiller University Jena, Cluster of Excellence "Imaginamics: Practices and Dynamics of Social Imaging" Public Hub

Public Hub

The Public Lab is a storefront in Jena's city center where research conducted by the Imaginamics Cluster of Excellence is shared with the general public. The intern is allocated a time slot to use the space and receives support in selecting a topic, defining the target audience, and developing the format. The aim is to experiment with science communication formats, and to document the entire process, from the initial idea and development to the final presentation.

Traineeship tasks

- Independent conceptualization of an event format within the framework of the "Imaginamics" Cluster of Excellence
- Identification of suitable partners within the Jena community
- Preparation, organization, execution, and documentation of the event

Requirements

This position is suitable for international master's students in the arts, humanities or social sciences with proficiency in English and German (at least B2 level), an interest in the intersection of science and the arts, innovative formats for science communication, Citizen Science projects, and engaging with different audiences both in person and through digital channels.



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TRAINEESHIP OFFER

Imaginamics: Practices and Dynamics of Social Imaging

When? 4 January - 31 March 2027

Where? Friedrich Schiller University Jena, Cluster of Excellence
“Imaginamics: Practices and Dynamics of Social Imaging” Research School

Research School

Internship at the Research School of the Cluster of Excellence, focusing on background research to help broaden the reach of the second PhD call.

Traineeship tasks

- Online research on master's programs in the humanities and social sciences worldwide that address topics related to the Cluster of Excellence (imagination, social imagination, utopias/dystopias, images, visualization, practices, the role of art, literature, and social media)
- Review of the Cluster's proposal
- Compiling the research results into a comprehensive, interactive Excel spreadsheet
- Establishing contact via email, referencing the call for applications for the second cohort of PhD students in winter 2027.

Requirements

This position is suitable for international bachelor's students in the humanities or social sciences with good Excel and language skills in German (A2) and English (B2). Applicants with English at B1 level may also be considered if they have additional language skills. Candidates should have an interest in the Cluster's research topics and/or disciplines and, ideally, their own accounts on social media platforms (Instagram, LinkedIn, Facebook, etc.) and communication platforms (WhatsApp, Signal, etc.) to support research and outreach, particularly in non-European contexts. Additional language skills (e.g. French, Spanish, Russian, or Chinese) would be an advantage.



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TRAINEESHIP OFFER

Development and characterization of innovative and sustainable electrolytes for sodium and potassium ion batteries

When? 4 January - 31 March 2027

Where? Faculty of Chemistry and Earth Sciences, Institute for Technical Chemistry and Environmental Chemistry

Research Group Prof. Dr. Andrea Balducci

The group is working on the development on energy storage devices, with special focus on electrolytes. All equipments needed for the chemical-physical and electrochemical characterization of electrolytes and devices are available in the labs.

Traineeship tasks

The trainee will work on the design and characterisation of innovative and sustainable organic electrolytes. The chemical-physical properties of the electrolytes will be studied, as well as their use in combination with different active materials suitable for sodium and potassium batteries (preferably developed in the trainee's laboratory).

Requirements

This position is suitable for international master's students with experience in electrochemistry & material development



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