



FRIEDRICH-SCHILLER-
UNIVERSITÄT
JENA

Friedrich Schiller University Jena
Institute for Technical Chemistry and
Environmental Chemistry

TRAINEESHIP OFFER

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

Duration: three months starting October 15

Are you a master's student and ready to:

- Work on the design and characterisation of innovative and sustainable organic electrolytes?
- Study chemical-physical properties of the electrolytes?
- Study their use in combination with different active materials suitable for sodium and potassium batteries (preferably developed in the trainee's laboratory)?



Research Group Prof. Dr. Andrea Balducci

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

More info:



Requirements: Experience in electrochemistry and material development, currently enrolled in a Master's program
Send your application to incoming@uni-jena.de by 25 August 2026



TRAINEESHIP OFFER

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

Duration: three months starting October 15

About

We are developing a user-friendly web-based tool that helps microbiologists to extract quantitative information from growth curve data. We have a trial version of the tool and we have collected user feedback on how it can be improved.

Your tasks would include

- 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.



Research Group Prof. Dr. Rosalind J. 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.

More info:



Requirements: python programming, software engineering, AI, differential-equation based dynamical modelling, interdisciplinary communication, currently enrolled in a Master's program

Send your application to incoming@uni-jena.de by 25 August 2026