

Doctoral Candidate

AUFBRUCH – Shaping the transformation to a sustainable regional bioeconomy

Introduction:

The Graduate Cluster AUFBRUCH aims to empower young people in their doctorates to help shape the transition to a sustainable bioeconomy. AUFBRUCH brings together a consortium of seven academic institutions and a cluster, and thus a wide range of disciplines. The project aims to empower the doctoral candidates with interdisciplinary training and entrepreneurial insights, enabling them to actively drive the transformation of the Rhenish mining area (Rheinisches Revier). By breaking down barriers between disciplines, stakeholders, and fields of expertise, AUFBRUCH aims to pave the way for a sustainable bioeconomy in the region.



Within the Schwaneberg Group (Chair of Biotechnology – RWTH Aachen University), a scalable immobilization of enzymes based on anchor peptides will be developed. The toolbox is designed to provide a general solution that minimizes the need for enzyme-specific optimization and enables an easy immobilization of target surfaces while enabling the reuse of the biocatalyst and cofactor.

Your requirements:

- Successfully completed your university degree (Master's or equivalent) in life sciences (Biotechnology, biology, biochemistry or similar);
- Proficiency in English and German (written and spoken);
- Willing to develop yourself as an independent scientist;
- Knowledge of molecular biology and microbiological methods;
- Good problem-solving skills;
- Able to work independently as well as in a team;
- Good management and communication skills.

What we offer:

- We will give you a temporary employment contract (TV-L 13, 65%) (total 3 years contract);
- A multicultural work environment;
- Opportunity to pursue a doctoral degree in a leading University;
- Excellent scientific exchange with surrounding research institutions;
- Opportunities for profession development and career advancement in biotechnology;
- The chance to contribute to cutting-edge research.

About us:

The Schwaneberg Group's general goal is to advance protein engineering, such as directed evolution methodologies, to discover fundamental design principles of proteins, and to perform translational research within the areas of interactive materials, biocatalysis, and circular bioeconomy. Developed protein engineering strategies such as KnowVolution are used to combine computational and experimental efforts and thereby to ensure efficient protein design with minimal experimental efforts and a molecular understanding of improved properties.

Application:

If you are interested, please apply with your cover letter, transcript of records, and CV via e-mail:

Dr. Amanda Staudt

E-mail: a.staudt@biotec.rwth-aachen.de

We look forward to receiving your application.