



Post-Doc / Researcher (m / f / d)

Electrochemical conversion of biobased resources

Task description:

Biobased resources can make a major contribution towards reducing green-house-gas emissions. We want to investigate two innovative concepts for the valorization of biomass: microbial fuel cells and electrochemical synthesis. The goal is to identify ways of improving energy efficiency and reaction selectivity. To this end, the two processes shall be analyzed experimentally in laboratory-scale flow reactors. Conversion, energy efficiency and limiting reaction steps are assessed by techniques such as HPLC, IR-Spectroscopy and Cyclic Voltammetry. The applicant is expected to bring in own ideas and experience towards reaching the project goals and to publish the results in peer-reviewed journals.

The research project is carried out at the Institute for Energy and Process Engineering of TU Braunschweig (www.tu-braunschweig.de/ines), where a motivated team awaits you. We are looking for a Post-Doc / research assistant (m / f / d) for this project as soon as possible.

Requirements:

We are looking for an engineer / scientist with a master's or doctoral degree. The candidate should bring:

- Practical lab experience, preferably including analytical technics such as HPLC, GC, IR
- Sound knowledge of chemical engineering, electrochemistry, or microbial fuel cells
- An above-average degree
- Creativity, curiosity, and self-motivation
- Fluent English. German skills are an advantage

We offer:

- Full-time position, TVL E13 (gross salary 4.000-5.000 € per month, depending on experience)
- Motivated team
- Good working environment in one of the most renowned technical universities in Germany
- Flexible working hours
- Opportunity to attend international conferences and meetings

The expected entry date is December 2020. The duration is initially limited to two years and may be extended afterwards. The position is part-time suitable but should be occupied 100%. The payment is made according to task assignment and fulfillment of personal requirements to salary group EG 13 TV-L. International applicants may have to successfully complete a visa process before hiring can take place. Applications from international scientists are also welcome. The TU Braunschweig aims to increase the share of women in academic positions. Applications from female candidates are very welcome. Where candidates have equal qualifications, preference will be given to female applicants. Candidates with handicaps will be preferred if equally qualified. Please enclose a proof.

Please send applications by e-mail to Dr.-Ing. Fabian Kubanek (bewerbungen-ines@tu-braunschweig.de) by **September 20, 2020**.

Personal data and documents relating to the application process will be stored electronically. Please note that application costs cannot be refunded.