Faculty of Mechanical Science and Engineering

At the Institute of Process Engineering and Environmental Technology the Chair of Transport Processes at Interfaces invites applications for a

Research Associate
(Subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

in the area of the magnetic field-assisted electrodeposition of electrocatalytic Co-Fe-Ni nanostructures, starting at the next possible date. The position is fixed-term for 3 years. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). The position aims at obtaining further academic qualification (e.g. PhD or habilitation thesis).

Tasks: electrochemical deposition of (Cu, Fe, CoFeNi) nanostructures in variable magnetic fields; study of micro-convective flows and mass transport during electrodeposition using optical methods (Micro-PIV and interferometry); efficient interdisciplinary collaboration with numerical oriented researchers and electrochemists in the frame of the German-Polish DFG-NCN project with AGH University Krakow and IFW Dresden.

Requirements: very good university degree in one of the related disciplines (Engineering, Chemistry or Physics); a background in electrochemistry, optical measurement techniques or fluid dynamics is advantageous.

Applications from women are particularly welcome. The same applies to people with disabilities.

Please submit your comprehensive application including the usual documentation by 30.01.2018 (stamped arrival date of the university central mail services applies), preferably via the TU Dresden SecureMail Portal https://securemail.tu-dresden.de by sending it to kerstin.eckert@tu-dresden.de or by mail to: TU Dresden, Fakultät Maschinenwesen, Institut für Verfahrenstechnik und Umwelttechnik, Professur für Transportprozesse an Grenzflächen, Frau Prof. Dr. Kerstin Eckert, 01062 Dresden. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.