

OPEN RESEARCH POSITIONS

electrochemical engineering, membrane technology

GRADUATE STUDENT

Electrified Brine Valorization

European
Innovation
Council



Funded by
the European Union

I am looking for a candidate to join an international research project focused on sustainable electrochemical technologies for brine valorization. The research focuses on electrodialysis, electrochemical carbon dioxide capture and conversion, and the integration and modeling of integrated electrochemical processes. The project is part of a Pathfinder Challenges initiative and will be carried out in cooperation with leading European research groups and an industrial partner.

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European Research Council
Established by the European Commission

Selective Ion Separations Using Porous Electrodes and Ion Exchange Membranes

I am looking for a candidate to join an ERC funded research project focused on studying highly selective electrochemical ion separation processes.

The project addresses the selective separation of chemically similar ions, such as sodium and potassium, which remains a key challenge in current separation technologies.

The research involves studies of adsorption and desorption kinetics in porous electrode materials and ion transport through ion-exchange membranes. The work will focus on material development and testing using electrochemical measurement techniques, comprehensive characterization of electrode and membrane materials, and the development and implementation of numerical models describing ion transport and separation behavior under a range of operating conditions.

Additional positions for graduate students and postdoctoral researchers will be available soon.

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Wrocław University
of Science and Technology