



SPACER partners and doctoral candidates during the project meeting and first training unit at University of Chemistry and Technology, Prague, Czech Republic, June 9-11, 2026

Partnership

Coordinated by the Fraunhofer Institute for Chemical Technology in Germany, SPACER involves 12 partners from 7 European countries, 8 associated partners and 17 doctoral candidates.

-  Fraunhofer ICT | Germany
-  University of Stuttgart | Germany
-  University of Bayreuth | Germany
-  Chalmers University | Sweden
-  Elestor | The Netherlands
-  Eindhoven University of Technology | The Netherlands
-  Pinflow Energy Storage | Czechia
-  University of Chemistry and Technology Prague | Czechia
-  CEITEC – Brno University of Technology | Czechia
-  University of Innsbruck | Austria
-  University of Padua | Italy
-  Technical University of Denmark | Denmark
-  ZHAW | Switzerland

Associated partners

Fureho AB, University of New South Wales, University of Queensland, Bruker Biospin, AVCarb Materials Solutions, E-Storage Engineering, Golin Wissenschaftsmanagement, Volterion GmbH

Contact

Adj. Assoc. Prof. (UNSW, UQ) Dr.-Ing. Jens Noack
Coordinator
Phone: +49 721 4640 870
jens.noack@ict.fraunhofer.de

Carolyn Fisher
Phone: +49 721 4640 277
carolyn.fisher@ict.fraunhofer.de

Fraunhofer Institute for Chemical Technology ICT
Joseph-von-Fraunhofer-Straße 7 | 76327 Pfinztal (Germany)

Social media



SPACER – Doctoral network for porous electrode architectures in redox-flow batteries

Funding



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Duration: 1.9.2025 – 31.8.2029

Interested?

Scan the QR-code and find out more about porous electrode architectures in redox-flow batteries



Doctoral network for shaping porous electrode architecture to improve current density and energy efficiency in redox-flow batteries

SPACER is a research and training project funded by the European Union's Marie Skłodowska-Curie program.

SPACER aims to develop new architectures for porous electrodes to improve the power density and energy efficiency of redox-flow batteries, enabling affordable and durable long-duration energy storage.

www.rfb-spacer.eu

Research

SPACER will develop high-power porous electrodes with tailored architectures. The approach is to use hierarchical structures, i.e. complex material layers that can be optimized to specific chemistries and flow phenomena from the micro-scale up.

The project work is divided into 4 development areas:

- Multiscale modelling
- Prototyping of the identified structures
- Characterization of the material prototypes
- Validation, evaluation and demonstration

Training

SPACER aims to provide 17 doctoral candidates with the scientific and complementary skills they will need for a career in the field of electrochemical energy storage.

They will gain expertise in modelling, prototyping, and characterization from micro- to macroscale for industrial carbon electrode applications in two flow battery types. Entrepreneurship training and industrial secondments connect theory with practice and provide real-world experience.

