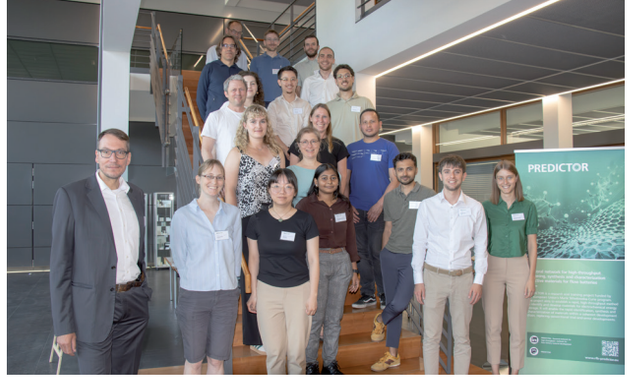

PREDICTOR partners and doctoral candidates at the first training unit in Pfinztal, Germany, 17th June 2025.

Partnership

Coordinated by the Fraunhofer Institute for Chemical Technology in Germany, PREDICTOR involves partners and associated partners from 10 different countries, who will recruit 17 doctoral candidates for the project.

- **Fraunhofer ICT** | Germany
- **Fraunhofer SCAI** | Germany
- **Technical University of Denmark** | Denmark
- **Software for Chemicals & Materials BV** | The Netherlands
- **University of Aalto** | Finland
- **National Centre for Scientific Research** | France
- **Karlsruhe Institute of Technology** | Germany
- **CellCube Energy Storage GmbH** | Austria
- **Accelerated Materials Ltd.** | United Kingdom
- **ZHAW** | Switzerland
- **University of Cambridge** | United Kingdom

Associated partners

HTE GmbH, Harvard University, University of Bayreuth, Golin Wissenschaftsmanagement, RWTH Aachen, University of Amsterdam, University of Leiden, University of Gent, Université de Picardie Jules Verne.

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Social media

PREDICTOR – Doctoral network for high-throughput methods for flow battery material development

PREDICTOR

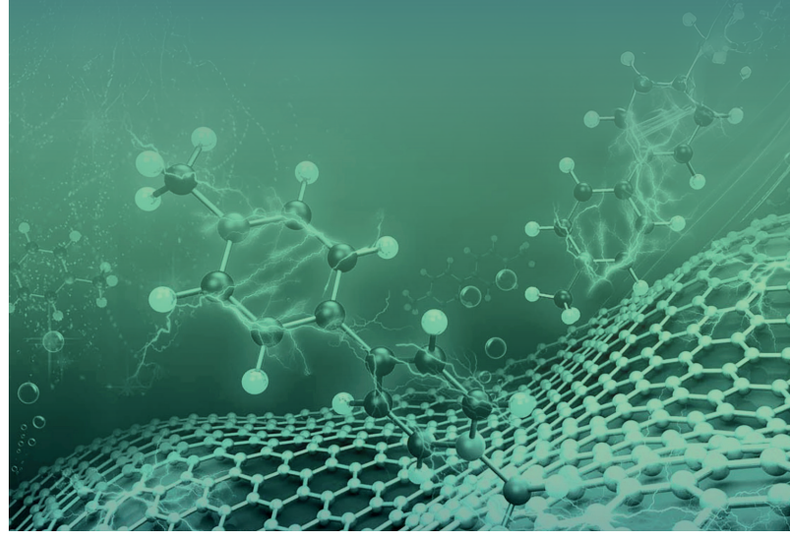
Funding

Funded by the European Union
(Grant Agreement no. 101168943).

Duration: 1.9.2024 – 31.8.2028

Interested?

Scan the QR-code and find out more about high-throughput development of materials for redox flow batteries



PREDICTOR

Doctoral network for high-throughput screening, synthesis and characterization of active materials for flow batteries

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

The project aims to establish a rapid, high-throughput method to identify and develop materials for electrochemical energy storage. It will enable the rapid identification, synthesis and characterization of materials within a coherent development chain, replacing conventional trial-and-error developments.

Research

PREDICTOR will focus on the high-throughput development of materials for redox flow batteries (RFBs), as one of the most promising technologies for medium- to long-term energy storage. In RFBs, a reversible chemical change occurring within liquid electrolytes enables the rapid storage and release of energy: the accelerated development of organic electrolytes thus offers significant potential to improve these systems and tailor them for specific applications. However, the new methods will be transferable to all electrochemical energy storage techniques.

The project work is divided into three development areas:

- Modelling, simulation and computational high-throughput screening
- Experimental high-throughput methods
- Data management and validation, experimental demonstration

Training

PREDICTOR will equip 17 doctoral candidates with the scientific and transferable skills needed for careers in electro-chemical energy storage.

They will gain in-depth knowledge in modeling, high-throughput experimentation, self-optimization, and data management across scales. Entrepreneurship training and industrial secondments will bridge theory and practice, providing real-world experience and diverse perspectives.