



> <b>Scope:</b>	67%
> <b>Temporary:</b>	1 year (+2 years)
> <b>Remuneration:</b>	TV-L 13
> <b>Start:</b>	as early as possible

**For the Institute of Organic Chemistry II and Advanced Materials we are looking for a/an**

## **Doctoral Researcher in Multivalent Metal-Organic Batteries (m/f/d)**

**Ulm University with its more than 10,000 students offers varied professional tasks in a highly innovative research, teaching and work environment, at the same time facilitating the reconciliation of work and family in many ways.**

<https://www.uni-ulm.de/stellen-weitere-infos>

We seek to increase the proportion of women in research and teaching and particularly encourages qualified female scientists to apply for this position.

Severely disabled applicants with equal aptitude will be given preferential consideration.

The position is embedded within the Cluster of Excellence POLiS (Post Lithium Storage, <https://www.postlithiumstorage.org/en>), funded by the German Research Foundation. Successful applicants will be supervised by Prof. Birgit Esser ([www.esserlab.com](http://www.esserlab.com)). The objective of the project is to develop multivalent metal batteries using organic redox systems as electrode materials

### **Your profile:**

- > University degree in Chemistry or a closely related field, suitable for admission into a German PhD program
- > Research experience in either synthetic organic chemistry and/or battery fabrication and electrochemical battery measurements
- > Research experience in multivalent metal batteries is beneficial
- > Fluent in English (written and spoken)
- > Excellent oral and written communication, and interpersonal skills
- > Exceptional organizational and management skills

### **Your responsibilities:**

- > Serve as major contributing member of the research team, leading the development of the research hypotheses and project planning
- > Carry out experimental research independently, and as part of a team
- > Mentor Masters and Bachelor researchers in the laboratory
- > Synthesize organic redox-active small molecules and polymers, including their characterization using state-of-the-art techniques and instruments
- > Fabricate and electrochemically characterize electrodes based on organic redox systems in multivalent metal-based battery cells
- > Prepare progress reports, research publications and conference presentations

**Seize the opportunity and join us in shaping the future of the University!**



> **Reference no.:** 22051  
> **Application deadline:** 30.04.2022

Hiring is done by the Central University Administration.

Your contact for further information:  
Prof. Dr. Birgit Esser, email: [birgit.esser@uni-ulm.de](mailto:birgit.esser@uni-ulm.de)

