

## Postdoc

Online seit 05.11.2024 | 2024-11-05-900432 | Wissenschaftliche:r Mitarbeiter:in

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### Stellenbeschreibung

The Chair of Atomic-scale Characterisation at the Faculty of Mechanical engineering is looking for a

**postdoc (m,f,x), for 2 years, 39,83 hours per week, TVL E13**

The chair of "Atomic-scale Characterisation" is studying materials at the atomic level.

The chair of Atomic-scale Characterisation is looking for a highly motivated postdoctoral researcher (m, f, x) in chemistry/materials science with a strong background in designing electrolytes for lithium metal batteries. He or she is expected to design new electrolytes to be compatible with lithium metal electrolytes, fabricate electrode or coin cells, perform electrochemical measurements (battery cycling, voltammetry, and electrochemical impedance spectroscopy) of battery cells, and other physicochemical characterization (e.g., scanning electron microscopy and X-ray photoemission spectroscopy) for lithium metal batteries. The postdoctoral researcher will be funded by the European Research Council (ERC) consolidator grant 'INTERACT' for two years.

#### Your tasks:

- The Postdoctoral researcher (m, f, x) will work closely with other members in the Chair of Atomic-scale Characterisation to improve a fundamental understanding of how electrode/electrolyte interfaces work in batteries, expanding his or her knowledge in materials characterisation
- The position will be equipped with a PhD student
- The successful candidate will work in the new research center for interface-dominated high-performance materials (ZGH) at Ruhr-University Bochum, which houses a large and comprehensive suite of equipment dedicated to nanostructure analysis; the center is among the world's best facilities of its kind.

### Anforderungsprofil & Qualifikationen

### Your profile:

- The candidate (m,f,x) must have:  
a PhD degree in materials science, organic or inorganic chemistry, electrochemistry  
extensive experience in designing new electrolytes for lithium metal anodes,  
performing electrochemical battery cycling tests, characterising electrode/electrolyte  
interfaces or interphases by scanning electron microscopy and X-ray photoemission  
spectroscopy  
solid knowledge of electrochemistry or relevant project experiences;  
a high level of spoken and written English  
can work both independently and as part of an interdisciplinary team;  
can work in a multicultural environment
- The candidate (m,f,x) may have:  
experiences in investigating solid electrolyte interphases by operando spectroscopy

### Our offerings:

- Challenging and varied tasks with a high level of personal responsibility
- Support from and cooperation with competent colleagues
- Team-oriented cooperation in a committed, international and appreciative team
- a friendly and collegial environment
- a modern, well-equipped workplace

### Additional information:

At the request of the applicant (m,f,x), the staff council may be involved in selection interviews. <https://www.wpr.ruhr-uni-bochum.de/>

If the position is funded by third-party funds the employee has no teaching obligation.

German language courses are offered by the University Language Center (ZfA) in the field of German as a Foreign Language (DaF).

<https://www.daf.ruhr-uni-bochum.de/sbgk/index.html.en>

You can find information about TVL at: <https://oeffentlicher-dienst.info/>

**The Ruhr-Universität Bochum is one of Germany's leading research universities, addressing the whole range of academic disciplines. A highly dynamic setting enables researchers and students to work across the traditional boundaries of academic subjects and faculties. To create knowledge networks within and beyond the university is RUB's declared aim.**

The Ruhr-Universität Bochum stands for diversity and equal opportunities. For this reason, we favour a working environment composed of heterogeneous teams, and seek to promote the careers of individuals who are underrepresented in our respective professional areas. The Ruhr-Universität Bochum expressly requests job applications from women. In areas in

which they are underrepresented they will be given preference in the case of equivalent qualifications with male candidates. Applications from individuals with disabilities are most welcome.

### Contact details for your application:

Prof. Dr. Tong Li, Phone: +49234 32 26099

Travel expenses for interviews cannot be refunded.

For information on the collection of personal data in the application process see:  
<https://www.ruhr-uni-bochum.de/en/information-collection-personal-data-application-process>.

We are looking forward to receiving your **complete and informative application documents (informative cover letter, CV with a publication list and PhD certificate) as one pdf document with the specification ANR: 3986 until 13.12.2024, send by e-mail to the following address: [atomicjobs-mb@ruhr-uni-bochum.de](mailto:atomicjobs-mb@ruhr-uni-bochum.de)**

Please get in touch with the contact person named above if you would like to use an alternative application channel.

## Vorteile für Mitarbeitende

- Vergünstigtes Jobticket
- Arbeitsplatz in lebendiger Metropolregion

## Stellenmerkmale

Beschäftigungsart	<b>Wissenschaftliche:r Mitarbeiter:in</b>
Beschäftigungsumfang	<b>Vollzeit (befristet)</b>
Home Office	<b>Nein</b>
Bewerbungslink	<b><a href="https://jobs.ruhr-uni-bochum.de/jobposting/975accbbb40fc79fee94ce53676c41317b7c3449?ref=stellenwerk">https://jobs.ruhr-uni-bochum.de/jobposting/975accbbb40fc79fee94ce53676c41317b7c3449?ref=stellenwerk</a></b>

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# Kontakt Daten

Firma/Hochschule

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Anschrift

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Kontakt

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Webseite

<https://uni.ruhr-uni-bochum.de/de/stellenangebote>