

Open postdoctoral positions in Research Area I of the Cluster of Excellence RESOLV

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Stellenbeschreibung

RESOLV is a world-leading interdisciplinary research project in Solvation Science awarded as a Cluster of Excellence by the German Excellence Strategy. Within RESOLV, more than 200 scientists at six institutions in the Ruhr area covering experimental chemistry, theory and chemical engineering investigate how solvents are involved in the control, mediation and regulation of chemical reactions and processes. The research focuses on three main areas: I) Local Solvent Fluctuations in Heterogeneous Systems, II) Solvent Control of Chemical Dynamics and Reactivity, and III) Solvation Under Extreme Conditions. RESOLV's mission stretches from fundamental research to applications and products. For more information, please refer to our website (www.solvation.de).

Open postdoctoral positions in Research Area I of the Cluster of Excellence RESOLV (m,f,x)

RESOLV has established a structured postdoctoral training platform with an emphasis on both individual research training and career coaching in academia, industry, and entrepreneurship. Applications for full-time postdoctoral researchers for two-year temporary subprojects (39.83 h/week, payment according to public service's wage agreement TV-L E13) are welcome.

Your tasks:

- In Research Area I, RESOLV focuses on local solvation phenomena in nano heterogeneous environments that determine the reactivity and selectivity in solution and the function of electrocatalysts, receptors, and enzymes. RESOLV works on extending the key concepts of Solvation Science established in the homogeneous bulk phase to spatially and time-resolved properties. Local perspectives are introduced into (i) solvation thermodynamics including entropy, (ii) site-specific polarity, proticity and pH of solvents, and (iii) de/re-solvation processes in bio-electrochemistry and electrocatalysis down to the local single entity level. This local perspective will impact innovative energy conversion and storage devices and, in the long run, areas such as sensor technology and drug design.

Anforderungsprofil & Qualifikationen

Your profile:

- You hold a full university degree with a doctorate in Chemistry, Physics, Biochemistry, Chemical Engineering or comparable subjects.
- You are fascinated by the interdisciplinary research field Solvation Science.
- You have experience in one of the following disciplines: bio- or electrocatalysis, synthesis (organic or coordination chemistry), (time-resolved) spectroscopic techniques, microscopy at interfaces and on surfaces, theoretical chemistry (simulations or electronic structure calculations), or chemical engineering (thermodynamic measurements and modelling).
- You have a solid knowledge of English in a professional environment (at least level B2, oral and written).

Our offerings:

- You will be embedded in a high-profile research environment.
- You are integrated in the International Faculty Solvation Science.
- You will benefit from personal development possibilities, the entrepreneurial attitude within RESOLV and a broad spectrum of lectures as well as transferable skills courses.
- You are provided with funding for visiting international conferences.

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:

Serena Orsi at resolv@rub.de.

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>.

ANR: 3937 until 15.11.2024

Applications are welcome any time. Complete applications including a CV and an outline of possible projects within RESOLV should be sent electronically as one pdf document to resolv@rub.de. For more information, please visit our website or contact Serena Orsi at resolv@rub.de.

Vorteile für Mitarbeitende

- Vergünstigtes Jobticket
- Arbeitsplatz in lebendiger Metropolregion

Stellenmerkmale

Beschäftigungsart	Wissenschaftliche:r Mitarbeiter:in
Beschäftigungsumfang	Vollzeit (befristet)
Home Office	Nein
Bewerbungslink	https://jobs.ruhr-uni-bochum.de/jobposting/aaf65c805a7b19ac20c245939567990e220a4c30?ref=stellenwerk

Kontakt Daten

Firma/Hochschule

Ruhr-Universität Bochum

Anschrift

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Kontakt

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Webseite

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