



With more than 6,200 employees in research, teaching and administration and its unique profile, TU Dortmund University shapes prospects for the future: The cooperation between engineering and natural sciences as well as social and cultural studies promotes both technological innovations and progress in knowledge and methodology. And it is not only the more than 34,300 students who benefit from that.

Postdoctoral Researcher (m/f/d) (Ref.-Nr. W38-20)

The Faculty of Chemistry and Chemical Biology at TU Dortmund University invites applications for a position as Postdoctoral Researcher. Employment will be at the next possible time on a fixed-term contract for 12 months. The salary follows the regulations of the collective bargaining law in salary class 13 TV-L. This is a full-time position. The position is, in principle, also appropriate for part time employment.

The Henke Group works on the synthesis and characterization of metal-organic frameworks (MOFs) for energy-related applications. We are seeking outstanding candidates for a postdoctoral position in materials chemistry to perform research on the ionic conductivity of disordered MOFs and MOF glasses. In this project, MOF synthesis and MOF glass preparation are coupled with in-depth materials characterization (in particular via electrochemical impedance spectroscopy). The successful candidate will join an active and interdisciplinary team of highly motivated researchers.

RESPONSIBILITIES:

The candidate will lead an explorative third-party funded research project on the development and characterization of ionically conducting disordered MOFs and MOF glasses. This involves highly independent lab work, instrumental materials characterization (predominantly electrochemical impedance spectroscopy, but also PXRD, X-ray scattering, TGA/DSC, IR, MAS NMR and Raman spectroscopy), as well as competent data analysis and data interpenetration.

Strong interactions with other members of the research group, the Faculty of Chemistry and Chemical Biology and the Faculty of Physics are expected.

PROFILE:

- A doctoral degree in chemistry, physics or materials science
- Demonstrated experimental and analytical background as well as a strong publication record in electrochemistry, in particular in the area of solid electrolytes
- Proven in-depth experience in electrochemical impedance spectroscopy and powder X-ray diffraction.
- Experience with MAS NMR spectroscopy, X-ray total scattering and TGA/DSC is beneficial
- Very good problem-solving and team-leading abilities
- Strong language, communication and presentation skills in English, as evidenced by publications and the cover letter are required

We explicitly note that applications of all sexes are welcome.

Applications from women are favoured complying with legal regulation.

It is pointed out that the application of eligible severely disabled persons is desirable.

Applications enclosing a cover letter, CV, publication list, max 2-page research statement and copies of certificates may be sent in PDF format to

<http://karriere.tu-dortmund.de>

until 15.06.2020 (reference w38-20).

For further information please do not hesitate to contact:
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