



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. w27-20)

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 18 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 porous liquids based on metal-organic framework colloids. In this project, MOF synthesis and colloidal solution chemistry are coupled with in-depth materials characterization (in particular X-ray diffraction and gas sorption). 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 porous liquids from colloidal MOF particles. This involves highly independent lab work, instrumental materials characterization (IR, NMR, PXRD, gas sorption, rheology, TGA/DSC, etc.), advanced synchrotron radiation experiments (XRD, SAXS) 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 or materials science
- Demonstrated experimental background and strong publication record in the area of metal-organic frameworks / supramolecular porous compounds
- Proven in-depth experience in materials characterization via powder X-ray diffraction, isothermal gas sorption, thermal analysis, etc.
- Experience with synchrotron radiation experiments (X-ray diffraction and scattering) 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

TU Dortmund wants to increase the proportion of women in science and therefore especially asks women to submit their applications.

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 as a single PDF to

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

until 01.04.2020 (reference w27-20).

For further information please do not hesitate to contact:
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