

Our group at Ruhr-University Bochum, Germany, is striving to establish „unconventional“ interactions like halogen bonding and chalcogen bonding in noncovalent organocatalysis. These interactions are conceptually similar to the well-known hydrogen bonding but feature some distinct advantages (e.g. „soft“ interacting atoms and high directionality).

We are currently looking for a

Ph.D. candidate (m/f/d) in organic chemistry (supramolecular chemistry, organocatalysis)

to start as soon as possible.

We offer a well-equipped research environment at Germany's eighth largest university, 15+ years of experience in this field of research, a three year contract with possibilities for extension, and a salary according to 2/3 TVL-E13.

The research project centers around neutral and cationic multidentate halogen-bond donors and their application in organocatalysis and in the construction of supramolecular assemblies. It involves the synthesis of novel compounds, their characterization, and subsequent studies on reaction kinetics, self-assembly in solution, and related topics. For an overview on the latest developments in halogen bonding organocatalysis, please see: *Angew. Chem. Int. Ed.* **2024**, e202404823

You should have a strong background in organic synthesis and be well-versed with all common characterization methods. A background in supramolecular chemistry or organocatalysis would be ideal but is not mandatory.

Bochum is situated in the center of the Ruhr area, a former mining region, which is located in the west of Germany. Some impressions can be found at www.ruhr-tourismus.de/en/ and www.bochum.de

Interested?

Please apply via email (including CV and letter of motivation) **until March 15th** to stefan.m.huber@rub.de, **with „XB PhD“ as headline**. We are looking forward to discuss further details in person!