

Chemnitz University of Technology is an established innovative scientific and educational institution, which takes on the challenges connected with the competition between the universities. Chemnitz University of Technology offers attractive employment for personalities with proven scientific excellence who want to contribute to the further innovative development of the university.

Starting at 01.10.2025, the Faculty of Natural Sciences, Professorship Organic Chemistry, offers an employment for a

Doctoral Candidate (DC) / PhD Position (m/f/x)

(100 %, salary plus allowances package according to the Marie Skłodowska-Curie Actions (MSCA) – Doctoral Networks rules)

for a period until 30.09.2026 (with a planned extension until 30.09.2028). Selection is based on suitability, qualification and professional performance. Chemnitz University of Technology aims to support women in particular and therefore expressly asks qualified women to apply. In the case of equal suitability, severely disabled persons or persons of equal status will be given priority in accordance with SGB IX.

The above position is one of the Doctoral Candidate positions of the CATALOOP (Closing the Loop in stereoselective Catalysis by data-driven Approaches) Doctoral Network (cataloop.eu). The described open position has the topic "Catalytic asymmetric H₂-driven C-C bond forming reactions" and is supervised by Prof. Dr. Johannes Teichert

The CATALOOP network aims at the development of powerful and readily applicable workflows for data-driven development of stereoselective catalysis. As a main training goal we want to educate researchers in comprehensive data-driven experimental approaches for realizing challenging asymmetric catalytic methods.

This network brings together academic research groups with expertise in experimental catalyst development with theoretical groups skilled in computational and data-driven chemistry in order to develop new catalytic asymmetric reactions. World-leading industrial partners with a wide range of interests will provide advice on which approaches may have the most impact on industry and will host the students in secondments. Students will be assigned experimental and theoretical supervisors and be trained to a minimum level of proficiency in both aspects. This envisaged combination of research and training will develop researchers with a unique skill set who are well suited to developing new enantioselective catalytic processes that are in high demand in academia and industry. The CATALOOP project offers the possibility to pursue the PhD within the Network at different universities/research centres/industrial companies from 7 European countries (Israel, Germany, Ireland, Switzerland, the Netherlands, Spain, England) Background information on all offered PhD positions is available on the web.

CATALOOP has received funding from the European Union's Horizon 2022 research and innovation programme under the Marie Skłodowska-Curie Action Doctoral Networks (HORIZON-MSCA-2022-DN-01) scheme, grant agreement number: 101168623

Tasks of the candidates:

- Research in Synthetic Molecular Chemistry
- Research in data-driven Asymmetric Catalysis
- Active participation in the networks' governance structure

The doctoral candidate will enrol in the doctoral student programme at Chemnitz University of Technology.

You will use your research results for scientific publications and your own qualification. This is a position for further scientific qualification.

If you want to join our interdisciplinary and highly motivated team in academically exploring a topic of high practical relevance, you should bring along the following **qualifications and traits**:

- Completed scientific university degree in the field of chemistry or comparable disciplines, which gives access to the corresponding qualification level.
- Sound specialist knowledge in the field of Organic and/or Organometallic Synthesis and Catalysis.
- Experience in the analysis of organic compounds (especially NMR methods).
- Experience in synthetic molecular chemistry under inert gas is advantageous.
- Good knowledge of English.
- Experience with quantum chemical calculations is advantageous.
- Previous international experience is desirable.

Eligibility conditions according to the MSCA eligibility criteria:

- The candidates must not have lived in Germany for more than 12 months combined in the three years before October 2025 according to the mobility regulations of the doctoral network
- Candidates must not have obtained a PhD title elsewhere

Applications should be sent with the usual documents to the address below by **15.05.2025**. Please note that, for security reasons, no electronic applications or attachments to applications that are made available for download via hyperlinks to third parties can be considered in the recruitment process.

Further information:

For additional information about this research project and DC position, please contact the scientist-in-charge/supervisor Prof. Dr Johannes Teichert

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For additional information about administrative aspects, please contact the network manager under cataloop@tu-chemnitz.de

Background material (host institution and research group):

- <https://www.tu-chemnitz.de/>
- [Link research group](#)
- [Link cataloop.eu](#)



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