

MAPEX

The MAPEX Center for Materials and Processes is an interdisciplinary and cross-institutional network of expertise in materials science and technology at the University of Bremen. It encompasses the fields of natural and engineering sciences as well as mathematics, aiming at the research and development of sustainable materials and processes for energy, mobility and space exploration. MAPEX offers a range of career development measures in cooperation with the central facilities of the university, the faculties and the institutes.

Doctoral Qualification Programme

In addition to their scientific education, MAPEX supports doctoral candidates in acquiring transversal skills and competencies needed for taking over leadership tasks inside or outside of academia after the successful completion of their doctorate.

Members of the programme benefit from:

- a milestone-based programme covering five qualification areas,
- a transcript of records summarising achieved milestones,
- a comprehensive summary of training courses and workshops offered by various institutions at the University of Bremen,
- individual consultation and advice with regard to their doctoral qualification process and the development of their personal competencies,
- workshops and networking events specifically targeted at early career researchers from MAPEX disciplines,
- the access to MAPEX funding for research stays abroad, materials analytics and organization of scientific workshops.

Registration

All early-career researchers pursuing a doctorate supervised by a MAPEX member can become a member of the MAPEX Doctoral Qualification Programme. Formal acceptance as a doctoral candidate by your respective faculty is not a prerequisite for the membership. A link to the registration form is provided on the website of the programme.

Universität Bremen
MAPEX Center for Materials and Processes
Bibliothekstraße 1, 28359 Bremen
www.uni-bremen.de/mapex



MAPEX Doctoral Qualification Programme

www.uni-bremen.de/en/mapex/career/doctoral-qualification-programme



MAPEX Funding

www.uni-bremen.de/mapex/forschung/funding-opportunities



The MAPEX Doctoral Qualification Programme

Receive additional support and advice for a state-of-the-art structured doctoral qualification tailored to your own needs



Milestones in five qualification areas

Members of the programme are encouraged to gather achievements in each of these areas, because they contribute to a successful doctoral qualification and demonstrate high individual and intrinsic motivation for personal development.



Publications

Peer-reviewed first-author publication
Conference talk in front of international audience
Poster presentation
Contribution in science communication



Networking

Cooperation with science or industry partners
Research stay abroad



Professional skills

Principles and rules of scientific work
Personal competencies
Higher-education didactics
Supervision of bachelor's and master's students
Lecturing activities
Organisation of scientific workshops/events



Lectures and courses

Advanced courses/lectures
Lecture courses on fundamental competencies
Technical/scientific trainings and schools



Languages

Proficient knowledge of scientific English
Basic to independent knowledge of German
Knowledge of additional languages

Transcript of records

The members of the programme enter their achieved milestones of qualification online. MAPEX maintains a list of these achievements and will hand out a transcript of records and a certificate of participation upon request.

Consultation

It might be a challenge to conduct your doctoral research while keeping in mind the development of personal skills. The MAPEX PhD Qualification Programme offers support from a team of experienced researchers from different career stages and backgrounds. It offers expert and confidential advice on a wide range of issues and topics, e.g.

- identifying areas of competencies with potential for personal development and finding or organising appropriate courses
- mediation to peer ECR-networks
- information and support on funding opportunities
- advice in any cases of difficulties and doubts during the doctoral process
- support of understanding the administrative and regulatory process and the formal requirements for doctoral studies at the University of Bremen

Training courses

Various institutions at the University of Bremen offer numerous training courses and workshops specifically designed for doctoral candidates and early career researchers to expand and improve their personal skills and development. We provide a regularly updated list of all offers relevant to the milestones of the MAPEX doctoral qualification programme on our website.

MAPEX offers

MAPEX and its Doctoral Qualification Programme regularly organise workshops and training courses specifically aimed at early career researchers. In the ECR workshops, which take place twice a year, early career researchers present their projects to their peers with interdisciplinary background and benefit from their different perspectives. The ECR workshop 'Science meets Industry' provides insights into different career paths and opportunities within and outside academia. In addition, the MAPEX Doctoral Qualification Programme organises different courses that provide specific training opportunities within the five qualification areas of the programme.

MAPEX funding

Participants of the Doctoral Qualification Programme have access to various MAPEX funding opportunities. MAPEX supports short term international research stays, materials characterisation at other research institutions, the organization of scientific workshops and events, accompanying family support for travelling, as well as small-scale explorative projects*. Please note that formal acceptance as a doctoral candidate by your faculty is a prerequisite for funding. For detailed conditions and eligibility criteria please refer to the website.

We also cover the costs for our members to participate in the university's one-year coaching programme „navigare – Career Coaching for International Females in Science“.

* needs to be applied for together with a MAPEX Early Career Investigator

