



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



Table of Contents

Graduate school	2
 Minds, Media, Machines Integrated Graduate School (MMMIGS) • University of Bremen • Bremen ..	2

Graduate school



Minds, Media, Machines Integrated Graduate School (MMMIGS)

University of Bremen • Bremen



Overview

Description/content

About the University of Bremen

The University of Bremen is a young, medium-sized research university. Together with the local research institutes and collaborative partners, it constitutes the leading research hub in north-western Germany. The university is a top performer in many areas of national and international excellence. Its international research profile is shaped in particular by five high-profile areas.

About Minds, Media, Machines

Minds, Media, Machines (MMM) is one of the five interdisciplinary, high-profile areas that largely define the research profile of the University of Bremen. Rooted in computer science, Minds, Media, Machines connects researchers from eight faculties of the university with numerous internal and external partners. They work together to enhance our understanding of intelligence, cognition in autonomous agents, and teams of agents in the context of mediated worlds. The insights are then transferred into a new generation of social, computer-based, and cyber-physical systems that make a substantial contribution to the welfare of our society, for example, via embodied intelligent systems that are tailored to users' needs, ageing with users and supporting them over their entire lives while keeping the users in full control of their personal data.

About the Minds, Media, Machines Integrated Graduate School

The Minds, Media, Machines Integrated Graduate School (MMMIGS) serves as a hub for structured doctoral programmes within the Minds, Media, Machines interdisciplinary high-profile area at the University of Bremen. MMMIGS promotes structured doctoral education within MMM, supports doctoral candidates and supervisors within the high-profile area, and offers a demand-tailored scientific qualification programme. The qualification programme is complemented by transferable skills workshops offered by Bremen Early Career Researcher Development (BYRD) as well as thematic courses offered by the doctoral programmes themselves.

The Structured Doctoral Programmes in the MMMIGS Network

Currently, six structured doctoral programmes are part of the MMMIGS network: the [EASE Integrated Research Training Group](#) (EASE IRTG), [Empowering Digital Media](#) (EDM), the [Research Training Group KD²School](#) (KD²School), [π³: Parameter Identification – Analysis, Algorithms, Implementations](#) (RTG π³), the [UBRA AI Center for Health Care](#), and the [ZeMKI doctoral programme](#). Please refer to the [MMMIGS website](#) for an up-to-date list of programmes and other offerings.

Faculties

- Faculty 01: Physics / Electrical Engineering
- Faculty 02: Biology/Chemistry
- **Faculty 03: Mathematics / Computer Science**
- Faculty 07: Business Studies and Economics
- Faculty 09: Cultural Studies
- Faculty 10: Linguistics and Literary Studies
- Faculty 11: Human and Health Sciences
- Faculty 12: Pedagogy and Educational Sciences

Course language	<ul style="list-style-type: none"> • German • English
-----------------	---

Services

Financial support	Yes
-------------------	-----

Structured research and supervision	Yes
-------------------------------------	-----

Research training / discussion	Yes
--------------------------------	-----

Career advisory service	Career advisory services for doctoral students at the University of Bremen are provided by the Career Center , a joint institution of the University of Bremen and the "Agentur für Arbeit" (German Federal Employment Agency).
-------------------------	---

Support for international students and doctoral candidates	<ul style="list-style-type: none"> • Specialist counselling • Visa matters • Help with finding accommodation • Support with registration procedures
--	---

General services and support for international students and doctoral candidates	The Welcome Center of the U Bremen Research Alliance supports international researchers and their families before and during their stay in Bremen, regardless of the length of their stay or how the stay is financed. As a central service point, it assists all newly arrived researchers in non-academic matters to help organise their life in Bremen and make it as enjoyable and uncomplicated as possible. Whether you are only in Bremen for a month or have been appointed to a permanent post, the services of the Welcome Center are available to you. Through a broad network of internal and external partners, it provides a range of administrative and social services.
---	---

Doctoral Programmes

List of doctoral programmes and other offers	Currently, six structured doctoral programmes are part of the MMMIGS network:
--	---

1. The [EASE Integrated Research Training Group](#) (IRTG) provides high-quality training to doctoral candidates within the EASE collaborative research centre (Everyday Activity Science & Engineering). The IRTG offers measures and activities to ensure and safeguard that doctoral candidates receive the best possible support in the start-up phase of their careers, both professionally and personally. Its qualification programme includes topic-based seminars and workshops as well as the annual "Fall School".
2. [Empowering Digital Media](#) (EDM) is a doctoral programme funded by the Klaus Tschira Foundation. The aim of the programme is to examine the role of digital media in the digital revolution. Moreover, EDM intends to create, implement, and evaluate methods and artefacts that have the potential to support people in a sustainable way and have a positive impact on society as a whole.
3. The [KD²School](#) Research Training Group deals with the design of adaptive systems for economic decisions. The graduates are spread over three locations: Karlsruhe (KIT), Gießen (University of Gießen), and Bremen (University of Bremen). The graduates network with each other through the LabLinking concept. The methods and implementations of this concept are tested, practised, and evaluated within the framework of the KD²School.

4. The Research Training Group π^3 : [Parameter Identification - Analysis, Algorithms, Implementations](#) (RTG π^3) focuses on problems in parameter identification, which are at the core of a large variety of applications in natural sciences, life sciences, and engineering as well as in industrial applications. The endeavour to develop, analyse and optimise models and algorithms for deterministic parameter identification problems, which are formulated as high-dimensional minimisation problems for non-linear functionals, is the guiding principle of this RTG.
5. At the “[AI Center for Health Care](#)”, doctoral candidates from the U Bremen Research Alliance (UBRA) member institutions collaborate on nine interdisciplinary projects. Recognising the growing importance of AI in health research, the centre establishes itself as a pivotal platform for in-depth scientific engagement and collaboration. Bolstered by the UBRA’s flagship initiative on “Artificial Intelligence”, the centre places a strong emphasis on enhancing the expertise of its doctoral students. Its primary aim is to leverage the synergies among its member institutions, striving to deliver a lasting impact in the research field.
6. The doctoral programme of the Center for Media, Communication and Information Research ([ZeMKI doctoral programme](#)) deals with the development of media and communication. In deeply mediatised societies, social fields including politics, education, religion, popular culture and art are transforming. Not only changing digital infrastructures but also innovative practices of media use and datafication play a role. Since phenomena in these thematic fields are multi-layered, the doctoral programme as a whole is based on a broad interdisciplinary approach in order to strengthen the respective disciplinary doctorates.

Please refer to the [MMMIGS website](#) for an up-to-date list of programmes and other offers.

Our Partners



University of Bremen



© Detmar Schmoll / Universität Bremen

The [University of Bremen](#) is a medium-sized German university with around 20,000 students. There are 2,300 academic staff members (43% of which are female), among them 270 professors (32% of which are female), who teach and carry out research in a wide range of disciplines. We have a long established tradition in interdisciplinary cooperation and excellent research in natural sciences, engineering, the social sciences and the humanities, as well as in teacher training. From 2012–2019, the University of Bremen with its future concept “Ambitious and Agile” was one of eleven universities that held the title “University of Excellence”.

The issues of today’s and future societies are dealt with in five interdisciplinary, high-profile areas focused on the oceans and the global climate, the future of industrial production, the social conflicts of modern welfare states, the interfaces between digital technology and humans ([Minds, Media, Machines](#)), the logistics of global supply chains, and equity in health care.

The university takes its social responsibility seriously and fosters its activities with many groups and institutions in Bremen, including twelve non-university research institutes within the [U Bremen Research Alliance](#). We are not afraid to be the first to tread new territory: Founded as a reform university, we aim to breathe life into change. Our vision: to further anchor the University of Bremen as a leading European research university and an inspiring place of education. To achieve this, we rely on our strengths, on the potential of all university members, and on the trusting cooperation with our partners.

[Further information](#)



Contact

University of Bremen

Minds, Media, Machines Integrated Graduate School

Dr Lena Wollschläger

Bibliothekstraße 5
28359 Bremen

Tel. +49 42121864443

✉ mmmigs@uni-bremen.de

🌐 Course website: <https://minds-media-machines.de/en/promotionsprogramme/>

Prof Dr Rolf Drechsler

Tel. +49

✉ [Email](#)

Prof Dr Rainer Malaka

Tel. +49

✉ mmmigs@uni-bremen.de

Last update 28.10.2024 09:52:54

International Programmes in Germany - Database

www.daad.de/international-programmes

www.daad.de/sommerkurse

Editor

DAAD - Deutscher Akademischer Austauschdienst e.V.

German Academic Exchange Service

Section K23 – Information on Studying in Germany

Kennedyallee 50

D-53175 Bonn

www.daad.de

GATE-Germany

Consortium for International Higher Education Marketing

www.gate-germany.de

Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

The publication is funded by the German Federal Ministry of Education and Research and by contributions of the participating German institutions of higher education.



Federal Ministry
of Education
and Research