



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



Table of Contents

Doctorate	2
IGS for Dynamics in Logistics • University of Bremen • Bremen	2

Doctorate



IGS for Dynamics in Logistics

University of Bremen • Bremen

Overview

Degree	German PhD degrees: "Dr-Ing": Doctor of Engineering "Dr rer nat": Doctor of Natural Science "Dr rer pol": Doctor of Economics "Dr jur": Doctor of Laws
In cooperation with	The IGS is embedded in the Bremen Research Cluster for Dynamics in Logistics "LogDynamics". It is a collaborative initiative, bringing together the working groups of five different departments of the University of Bremen in Germany. Associated partners are the BIBA (Bremer Institut für Produktion und Logistik GmbH), the Institute of Shipping Economics and Logistics (ISL), the Constructor University Bremen, and several international universities.
Teaching language	<ul style="list-style-type: none">English
Languages	The working language is English. All presentations and reports as well as the examinations have to be delivered in English. The thesis has to be written in English or German, and the colloquium has to be held in English or German as well.
Full-time / part-time	<ul style="list-style-type: none">full-time
Programme duration	7 semesters
Beginning	Only for doctoral programmes: any time
Application deadline	It is possible to apply at any time.
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	<p>The International Graduate School for Dynamics in Logistics (IGS) at the University of Bremen offers the opportunity to pursue a doctorate in an efficiently-structured doctoral training programme. Excellent early-stage researchers from all over the world are enabled to finish their third-cycle education at a logistic location of long-standing tradition.</p> <p>The IGS is embedded in the multi-disciplinary Bremen Research Cluster for Dynamics in Logistics</p>

(LogDynamics) (<http://www.logdynamics.de>).

LogDynamics is a cooperative network of research groups from five different departments of the University of Bremen: Production Engineering, Business Studies / Economics, Mathematics / Computer Science, Physics / Electrical Engineering, and Law. Associated partners are the BIBA – Bremer Institut für Produktion und Logistik GmbH, the Institute of Shipping Economics and Logistics (ISL), and the Constructor University Bremen gGmbH. The fields of research range from fundamental and applied research to transferring research results into practice. LogDynamics collaborates closely with enterprises, especially in the logistics and production industry.

The IGS aims to identify, describe, and model the intrinsic dynamics of present logistic processes and networks. By exploiting new technologies, business models and strategies, new dynamic planning and control processes will be researched and developed. The objective of the IGS is to foster excellence in education and research by providing an optimal environment. The IGS meets the challenge of globalisation through practice-oriented research within a scope of multi-disciplinary and cross-cultural cooperation.

The research revolves around four topic areas:

- Business models, decision processes and economic analyses of dynamics in logistics
- Holistic interdisciplinary methods for modelling, analysis and simulation of dynamics in logistics
- Adaptive and dynamic control methods in logistics
- Synchronisation of material, information, decision and financial flows

The IGS improves the career perspectives of early-stage researchers by offering structured doctoral training as well as by providing complementary skills and introducing researchers to industry and the international scientific community. There are numerous opportunities for doctoral candidates to participate in international conferences. Another example of an incentive is the option of actively contributing to the organisation of the biannual International Conference on Dynamics in Logistics (LDIC), a conference series set up by LogDynamics.

Current information

The IGS is an integral part of the University of Bremen. All updates about staying on campus are available at <https://www.uni-bremen.de/en/>.

Course Details

Course organisation

The curriculum of the **International Graduate School for Dynamics in Logistics (IGS)** is designed as a full-time course of research, corresponding to a German doctorate programme. It bundles interdisciplinary competences and supports the linkage between research and industry. Working on the **doctoral project** is the main element for research activities and occupies the major part of the curriculum. The individual research project is integrated in the **disciplinary research group** of the according supervisor and thus makes use of the knowledge and the infrastructure of the respective subject area and institute.

Besides the individual doctoral project, the curriculum covers collective thematic introductions, subject-specific courses, **interdisciplinary colloquia**, dialogue forums and excursions as well as **individual coaching** and **training of soft and complementary skills**. The latter is organised and supervised by a structural adviser in accordance to the individual needs of each doctoral candidate. Trainers of soft skills are often external experts, e.g. an opera director.

International elements

- International guest lecturers
- Language training provided
- Training in intercultural skills
- Projects with partners in Germany and abroad

Integrated internships

Doctoral candidates can benefit from a research stay at a foreign university/institute and

participate in transfer projects with industrial partners depending on the content of their research projects.

Teaching/work obligations or opportunities	<p>Due to the integration of each scholarship holder in the working group of her/his supervisor, a doctoral candidate has the opportunity to cooperate with researchers and staff members who are usually working on research projects with external partners – either from industry or academia.</p> <p>There are no teaching/working obligations for scholarship holders. The opportunity of contributing to teaching is given on an individual basis.</p>
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	Yes

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	The semester contribution amounts to approx. 350 EUR for half a year. Public transportation in Bremen is already included.
Costs of living	At least 934 EUR per month
Funding opportunities within the university	No

Requirements / Registration

Academic admission requirements	<p>The IGS addresses early-stage researchers from all over the world who hold a Master's degree equal to a German university level degree ("Master" or "Diplom", with thesis) in one of the following fields:</p> <ul style="list-style-type: none">• Production Engineering• Industrial Engineering• Economics• Electrical Engineering• Physics• Computer Science• Mathematics• Logistics• Law <p>The applicant must have graduated with exceptionally good marks. The decisive element of the application is the preliminary research proposal, which should describe a research question, research methods and literature references. A research plan is mandatory as well. Application documents will be evaluated with regard to the applicant's qualification for doctoral studies at the University of Bremen. Additionally, the proposed topic should align with the research spectrum of LogDynamics and be related to a research topic of an active professor within the research cluster.</p>
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The complete application guideline is available online at <http://www.logistics-gs.uni-bremen.de/173.html?&L=1>.

Language requirements	<p>Candidates should have a very good command of English and be familiar with basic German.</p> <p>Minimum requirements (English):</p> <p>TOEFL: 600 points on the written TOEFL, 250 on the computer-based TOEFL and 95 on the TOEFL iBT. All of them are to be supplemented by results of the Test of Written English (academic TWE). The minimum required score is 5.0.</p> <p>IELTS: Band 7.0, with a minimum of 6.0 for each (academic) module</p> <p>Note: Test results may not be older than 24 months.</p> <p>Candidates who obtained a degree of higher education in an English-speaking country are not required to present test results, but they do have to provide proof of their English language educational background.</p>
Application deadline	<p>It is possible to apply at any time.</p>
Submit application to	<p>IGS - Universität Bremen Dr-Ing Ingrid Rügge c/o BIBA Hochschulring 20 28359 Bremen Germany</p> <p>E-mail: info@IGS.LogDynamics.de</p>

Services

Possibility of finding part-time employment	<p>The IGS is not able to offer any scholarship to the applicants. It offers support if a student applies for a grant from a third party. The rules of additional employment depend on the third party's funding.</p>
Accommodation	<p>Neither the IGS nor the University of Bremen offer accommodation, but there are rooms and flats available on campus and in the city. Support is available through the Welcome Center of the University of Bremen at https://www.uni-bremen.de/en/research-alliance/welcome-center/housing.</p>
Structured research and supervision	<p>Yes</p>
Research training / discussion	<p>Yes</p>
Career advisory service	<p>The Bremen Early Career Researcher Development (BYRD) department offers courses and support centrally: https://www.uni-bremen.de/en/byrd/.</p>
Support for international	<ul style="list-style-type: none">• Tutors

students and doctoral candidates

- Specialist counselling
- Buddy programme
- Visa matters

General services and support for international students and doctoral candidates

The doctoral candidates of the IGS have free access to all offers of the University of Bremen, particularly to the BYRD support centre – Bremen Early Career Researcher Development (<https://www.uni-bremen.de/en/byrd.html>) – and full access to the library via Wi-Fi on campus.

BYRD provides a list of all supporting services at <https://www.uni-bremen.de/en/byrd/services-on-campus-1>.

Contact

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🌐 Course website: <http://www.logistics-gs.uni-bremen.de/157.html?&L=1>

📺 <https://www.youtube.com/channel/UCgMVIFhSRayEuolI88BLE5g>

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International Programmes in Germany - Database

www.daad.de/international-programmes

www.daad.de/sommerkurse

Editor

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German Academic Exchange Service

Section K23 – Information on Studying in Germany

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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".

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