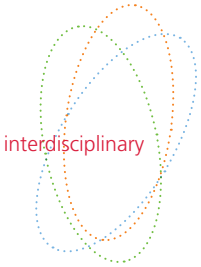
Application Procedure and Funding



The IGS addresses young researchers from all over the world holding a Master's degree equal to a degree on German university level in one of the following fields: production or industrial engineering, electrical engineering, physics, computer science, mathematics or economics. The individual has to 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. Application documents will be evaluated with regards to the applicant's qualification for doctoral studies at the University of Bremen. Additionally, the proposed topic should fit into the research spectrum of Log*Dynamics*.

The IGS supports candidates in identifying funding opportunities for doctoral grants. Furthermore, it contributes to mobility programmes funded by the European Commission, by the German Academic Exchange Service (DAAD) or by the industry. The IGS relies on private and public sponsoring. These sources of financing ensure the continuity of its successful operation.

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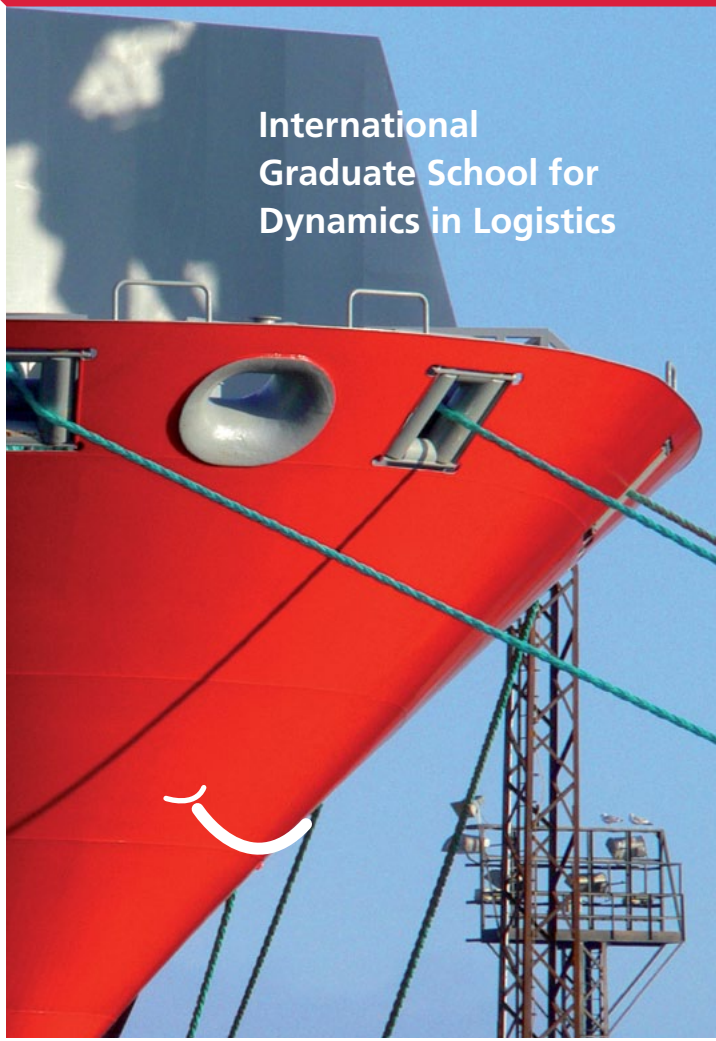
LogDynamics
International Graduate School



International Graduate School for Dynamics in Logistics

Universität Bremen

Research beyond Boundaries

international

The International Graduate School for Dynamics in Logistics (IGS) ofv the University of Bremen offers the opportunity to take part in an efficient, structured doctoral training program. Excellent researchers from all over the world are enabled to finish their education at a logistic location of long standing tradition.

The IGS is embedded in the cross-sectional Bremen Research Cluster for Dynamics in Logistics (Log*Dynamics*). It is a cooperative network of research groups from four faculties of the University of Bremen: Production Engineering, Business Studies / Economics, Mathematics / Computer Science, and Physics / Electrical Engineering. Associated partners are the BIBA – Bremer Institut für Produktion und Logistik GmbH, the Institute of Shipping Economics and Logistics (ISL), and the Jacobs University Bremen gGmbH. The fields of activity of Log*Dynamics* range from fundamental and applied research to transferring results into practice.

There are numerous opportunities for doctoral candidates to participate in international conferences. One incentive is the option of actively contributing to the bi-annual International Conference on Dynamics in Logistics (LDIC), a conference series set up by Log*Dynamics*.

Objectives

The objective of the IGS is to foster excellence in education and research by providing an optimal environment on different levels. The IGS meets the challenge of globalization through practice-oriented research within a scope of interdisciplinary and cross-cultural cooperation. The research is centered on four topic areas:

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

The IGS improves the career perspectives of early-stage researchers by offering a structured doctoral training, including human resource development, and introducing them to the industry as well as to the international scientific community.

All these elements immerse researchers in a discourse, which – instead of presenting a single dominant perspective – encourages cooperation beyond disciplinary and cultural boundaries.

Curriculum

cross-cultural

The IGS pursues an interdisciplinary and multicultural approach to higher education. The working language is English. The doctoral candidates benefit from disciplinary supervision, scientific mentoring as well as organizational and social support. Beside the individual doctorate projects, the curriculum covers subject specific courses, interdisciplinary research colloquia, dialogue forums, excursions and individual coaching regarding self-development. Furthermore, the young scientists profit from various cooperation opportunities and projects of Log*Dynamics* as well as from the technical infrastructure of the Log*Dynamics* Lab. The IGS integrates visiting professors into the supervision of the theses and external experts for specific training in the field of personnel development.

After having undergone at least three years of this structured training program, the doctoral candidates will have grown into excellent researchers of their discipline with valuable multicultural experiences, a wide-ranging interdisciplinary background and well-founded international contacts.