

The University of Stuttgart and SC SimTech

Exceptional research and teaching

The **University of Stuttgart** stands for exceptional, world-acclaimed research and first-class teaching in Europe's most vibrant industrial area. As one of the leading technically oriented universities in Germany with global significance, it sees itself as a center for university-based, non-university, and industrial **research** as well as a guarantor of research-based **teaching**. The Stuttgart Way means an interdisciplinary integration of engineering, natural sciences, humanities, and social sciences based on the fundamentals of cutting-edge research at a disciplinary level.



The University of
Stuttgart: Visionary
since 1829

The **Stuttgart Centre for Simulation Science** (SC SimTech), a key unit of the University of Stuttgart, is home to the SimTech Cluster of Excellence. **More than 200 scientists** from virtually all faculties of the University of Stuttgart develop innovative methods and solution concepts for socially relevant topics from all areas. They work together to develop simulation technology from isolated numerical approaches of individual disciplines to an integrative systems science.

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Universität Stuttgart

Graduate School
Simulation Technology

SimTech

The Graduate School

Interdisciplinary and international

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GS offers doctoral students the opportunity to step outside the box and to understand relationships that transcend their own discipline.

Prof. Dr.-Ing. Frank Allgöwer,
Director Graduate School

The Graduate School Simulation Technology (GS SimTech) is the interdisciplinary and internationally oriented PhD program of the SC SimTech.

More than 150 doctoral students from different research areas are currently involved in the GS SimTech. **More than 100** have already successfully obtained their doctoral degree in the field of simulation technology.

The graduate school supports the doctoral students by offering:

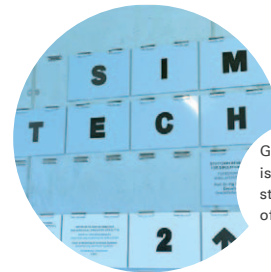
- An **excellent research environment** at the SC SimTech, encouraging interdisciplinary exchange,
- **Intensive supervision** by renowned scientists from different disciplines as well as
- A **comprehensive range of lectures**

Education

Fostering scientific talents

The **structural education** at the GS SimTech lasts between three and five years. Two senior researchers from different research areas of the SC SimTech provide guidance for the development of the doctoral thesis. With the assistance of these supervisors, the PhD student compiles an **individual curriculum** of lectures and seminars to acquire the necessary expertise and skills to work on the PhD thesis.

The GS SimTech also offers special seminars to advance **interdisciplinary networking** and to broaden the scientific horizon of its members. In addition, the PhD students are given the possibility to participate in soft skill seminars and a coaching program.



GS SimTech is the doctoral studies program of SimTech

The PhD students are in close contact with their supervisors. The yearly **status seminar** of the SC SimTech gives every PhD student the opportunity to present the latest discoveries and results as well as to discuss methodological questions. After 18 months in the GS SimTech, there is the obligatory **milestone presentation**. On this occasion, every PhD student has to present the status quo of his or her research project.

Thereafter, it is recommended to plan a **research stay overseas**, which normally lasts three months. The PhD students of the GS SimTech can rely on a vast network of international partner institutions.

Doctoral students of the GS SimTech ...

- have **at least two supervisors** from different disciplinary cultures.
- benefit from having **a second referee** from outside the University of Stuttgart.
- can attend **lectures and seminars especially designed** for the field of simulation technology.
- can conduct subject-specific and methodological **exchanges**.
- are integrated in the **overlapping research relationships** of the project networks.
- have an optimal opportunity for getting feedback after 18 months through a **milestone presentation**.
- network internationally during an obligatory **three-months stay at a research institute abroad**.

