

Promoting young academics

The study programmes **Biosystems Engineering** ([Bachel](https://www.ovgu.de/unimagdeburg/en/Study/Study+Programmes/Bachelor/Biosystems+Engineering-p-17619.html) and [Mas](https://www.ovgu.de/Studieninteressierte/Studieng%C3%A4nge+von+A+bis+Z/Master/Biosystemtechnik.html)) as well as **Systems Engineering** and **Technical Cybernetics** ([Mas](https://www.ovgu.de/Studieninteressierte/Studieng%C3%A4nge+von+A+bis+Z/Master/Systemtechnik+und+Technische+Kybernetik.html)) are part of the promotion of young scientists by the CDS and provide for a targeted education of young scientists.

The interdisciplinary Biosystems Engineering degree programme combines biological principles with engineering approaches the quantitative description, analysis and influencing of biological systems. Due to its conceptual design, the programme is unique in Germany and enjoys a high level of demand (approx. 300 applications with 50 admissions per year). The smaller degree programme in Systems Engineering and Technical Cybernetics attracts 20-30 methodologically oriented students annually throughout Germany. Remarkably, more than 40% of the graduates of both programmes go on to pursue a doctorate. Many positive feedbacks from the supervisors of internships, Bachelor's and Master's theses from industry and universities at home and abroad attest to the very good education of the students of both programmes.

In the meantime, numerous highly qualified young scientists have emerged from both programmes, who have been integrated in the scientific work of the CDS in the form of diploma/master's theses as well as doctoral projects. Both degree programmes are running successfully in the Bachelor's/Master's system and have been accredited.

To support the career of PhD students, the [IMPRS ProEng](https://www.mpi-magdeburg.mpg.de/imprs) International Max Planck Research School Magdeburg for Advanced Methods in Process and Systems Engineering, the [DFG-funded Research Training Group 2297 \(GRK2297\)](https://www.mathcore.ovgu.de/) Mathematical Complexity Reduction - CoRe; well as the [DFG-funded Research Training Group 2408 \(GRK2408\)](http://grk2408.ovgu.de/) Maladaptive processes across physiological barriers in chronic diseases offer professional research training programs.