OTTO VON GUERICKE UNIVERSITÄT MAGDEBURG

CDS
RESEARCH CENTER DYNAMIC SYSTEMS
SYSTEMS ENGINEERING

Promoting young academics

The study programmes Biosystems Engineering (› Bache (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 Syste Engineering and Technical Cybernetics (› Mas (https://www.ovgu.de/Studieninteressierte/Studieng%C3%A4nge+von+A+bis+Z/Master/Systemtechnik+und+Technische+Kybernetik.html)) a 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 uniq in Germany and enjoys a high level of demand (approx. 300 applications with 50 admissions per year). The smaller degr programme in Systems Engineering and Technical Cybernetics attracts 20-30 methodologically oriented students annua throughout Germany. Remarkably, more than 40% of the graduates of both programmes go on to pursue a doctorate. Ma positive feedbacks from the supervisors of internships, Bachelor's and Master's theses from industry and universities at home a 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 i the scientific work of the CDS in the form of diploma/master's theses as well as doctoral projects. Both degree programmes a 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 M Planck Research School Magdeburg for Advanced Methods in Process and Systems Engineering , the › DFG-fund 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 acro physiological barriers in chronic diseases offer professional research training programs.