

## Research Center Dynamic Systems (CDS): Systems Engineering

The **Research Center Dynamic Systems (CDS)** is a central scientific institution at the Otto-von-Guericke-University Magdeburg according to the university law of Saxony-Anhalt. The CDS unites research groups from engineering, systems theory, mathematics, medicine and biology. Scientists from six faculties of the Otto-von-Guericke University and from the Max Planck Institute work together closely and interdisciplinarily in order to achieve the jointly set goals.

Involved are:

- ▶ Faculty of Electrical Engineering and Information Technology
- ▶ Faculty of Computer Science
- ▶ Faculty of Natural Sciences
- ▶ Faculty of Process and Systems Engineering
- ▶ Faculty of Mathematics
- ▶ Faculty of Medicine
- ▶ Max Planck Institute for Dynamics of Complex Technical Systems Magdeburg

The aim of the CDS is to gain a basic understanding of complex dynamic systems in biomedicine, chemical production systems and energy conversion processes. The central dogma is the analysis, targeted manipulation and synthesis of these systems including mathematical modelling as linking subject.

The **SmartProSys** (<https://www.smartprosys.ovgu.de/>) research cluster was developed out of the CDS and is concerned with sustainable production of chemicals.

The CDS is funded by the State of Saxony-Anhalt within the framework of the European Regional Development Fund (ERDF).



### Events

**MPI Colloquia Series: Prof. Dr. Mario Mario Ohlberger, University Münster**

**When?** May 23, 2024, 2:00 p.m. to 4:00 p.m.

**Where?** Max-Planck-Institute - Big Seminar Room "Prigogine"

**MPI Colloquia Series Prof. Dr.-Ing. Jørgen Magnus, RWTH Aachen**

**When?** June 6, 2024, 2:00 p.m. to 4:00 p.m.

**Where?** Max-Planck-Institute - Big Seminar Room "Prigogine"

### News

19.04.2024

**Indian and German process and chemical engineers strengthen their close collaboration**

more...

16.02.2024

**94th Annual Meeting of the International Association of Applied Mathematics and Mechanics (GAMM)**

more...

02.02.2024

**Major research success for Magdeburg as a science location**

more...

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