

Bavarian Ministry of Economic Affairs, Regional Development and Energy

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Cluster

[Mechatronics & automation](#)

MECHATRONICS AND AUTOMATION

The core of Industry 4.0

As an interdisciplinary area of knowledge, mechatronics has sustainably shaped modern mechanical engineering and the adjacent industry groups through integration of IT in electromechanical systems. Thus mechatronics forms the basis for most of the ideas of industry 4.0. In Bavaria this applies to industrial key sectors with approximately 50 percent of all industry employees. Leading research institutes, such as the German Aerospace Centre (Deutsches Zentrum für Luft- und Raumfahrt (DLR)), several Fraunhofer Institutes, and many specialized university chairs with their scientific competence make an essential contribution to innovative industrial mechatronic applications. The cluster has established itself as a communication platform for mechatronics & automation in Bavaria with intensive participation of companies and scientific institutions. Through its commitment in the International Mechatronics Forum, among others, the cluster has gained high recognition on national and international scale. In cooperation with its members and partners, to date more than 50 research and transfer projects have been completed, e. g. in the machinery and plant engineering industry, electrical and electronics industry, medical technology industry, drive technology and environmental technology, as well as the aerospace industry. Thus, the cluster provides valuable and highly reliable support in the conception, development, production, operation and service of mechatronic and automation systems. In addition, its very own *mechatronikademie* provides an opportunity for professional and academic specialists to obtain adequate qualification and receive continuous professional training.

In the non-profit association of the same name, the Cluster Mechatronik & Automation e.V. as of 2016 comprises approximately 200 companies, universities and extramural research and development institutions. The members form an alliance to support the common promotion of cooperation in research and development as well as the particular exchange of experience and knowledge in the application of mechatronic principles, components, assemblies, machines and equipment. With an overview of their members' expertise, competence, capacities and interests, cluster management coordinates the initiation of bilateral cooperation and entire value creation

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[More Information](#)



Please find detailed information about the mechatronics industry at [Invest in Bavaria](#)

networks and provides platforms for exchange and qualifications that are in line with their members' demand.

Focus Areas

- Digitalization and Industry 4.0
- Manufacturing automation and robotics
- Mechatronic drive technology
- Production systems and processes
- Machines and data security
- Diagnostics and quality assurance



Prof. Dr.-Ing. Gunther Reinhart
Cluster Spokesman



Prof. Dr.-Ing. Jörg Franke
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Heiko Bartschat
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