Succeeding the joint project “Bayrisches Kompetenznetz für Mechatronik” (2000-2005, a Bavarian network for expertise in mechatronics) Cluster Mechatronik & Automation e.V. connects knowledge originating from the disciplines mechanics, electronics and computer sciences. Mechatronic innovations in technology fields such as automation, robotics and efficient production systems are especially important for production in Bavaria. Within its business segments communication, transfer and qualification the cluster offers economy and science a platform to cooperate actively, thus initiating innovations in the mechatronic sector. The cluster’s business activities include information and consulting services, research and transfer activities as well as offers concerning qualification and efforts securing availability of qualified staff.

Summary

Business segment qualification

Answering to demographic change and strengthening our companies’ abilities to innovate the business segment, qualification is being continuously enlarged. In context of the “mechatronikakademie” the Cluster is being active in the field further education as well as in creating strategies for ensuring the availability of sufficient skilled staff. The academy offers open training seminars as well as individual training for companies and their staff, suited to their needs. Annually the academy hosts a mechatronic summer school. Various actions are taken to ensure the availability of qualified staff. Firstly we are organizing competitions of the FIRST LEGO League (FLL) which is a program supporting the interest and enthusiasm of young people for technology. Secondly, for enterprises, we are offering a platform to get in touch with graduates. Among that is the monthly newsletter “mechatronikjobs” as well as the possibility to take place at the Cluster’s joint exhibition stand at recruiting fairs e.g. akademika.

The association’s objectives

- Counseling and supporting members and interested parties in conducting conception, development and production
- Basic groundwork in order to extend the Bavarian industry’s know-how as well as ensuring an active transfer of knowledge
- Coordinating activities, setting-up and maintaining an extensive network as well as creating synergies between enterprises and scientific institutions
- Initiating and conducting research and development projects together with science and economy
- Organizing special interest events, symposiums, workshops and information events with various current topics
- Executing projects and events concerning further training and securing the availability of sufficient qualified staff
- Working together with regional, federal, national and international networks as well as institutions of foreign trade

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networked innovations.

Cluster Mechatronik & Automation supports and accompanies F&E projects in every technology sector which is relevant for mechatronics such as industry or service robotics, semiconductor industry, automation, engineering, automotive, environmental and medical engineering as well as drive technology and electromobility.

Current facts and figures
(September 2013)

Members of Cluster Mechatronik & Automation e.V.: 120 enterprises, scientific or public institutions

The Cluster’s partners: 91 enterprises, scientific or public institutions

Cluster management employees: 10 (7 full time equivalents)

Target group: intersectoral; manufacturing enterprises, scientific, developing and educational institutions operating in application areas and precincts of mechatronics

Specific offer: We are supporting the whole mechatronic sector in conducting conception, development and production.

Expertise and core competencies of Cluster Mechatronik & Automation
- mechatronic components and devices
- drive technology
- micro-mechatronics
- smart materials
- mechatronic production and services
- machinery and plant engineering
- robotics
- industrial automation

Project examples

CFK-Tex: using microsystem technology (MST) for automated tailoring of dry carbon fiber reinforced plastic (CFRP) textiles

SoftRobot: a new software generation designed to control industry robots

Cluster seminar series: “Die Potenziale der Mechatronik nutzen” (Benefiting from the potentials of mechatronics)

F & E

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Contact

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