



Employees thereof approx. 223 studentsHeadquarters: Karlsruhe

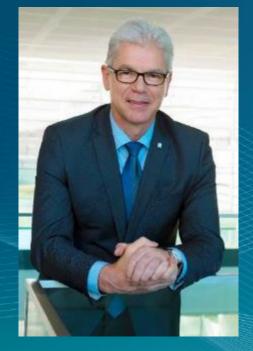
Million euro budget Operation and investments

17 Scientific departments

Business segments



Management Board



Prof. Dr.-Ing. habil. Jürgen Beyerer

Institute Director

Director Karlsruhe



Prof. Dr. rer. nat. habil. Marc Eichhorn Defense area

Director Ettlingen



Prof. Dr.-Ing.
Jürgen Jasperneite
Institute for Industrial
Automation IOSB-INA

Director Lemgo



Thomas Rauschenbach
Institute of Applied Systems
Engineering IOSB-AST

Directorate Ilmenau



Prof. Dr.-Ing. Peter
Bretschneider
Institute of Applied Systems
Engineering IOSB-AST

Directorate Ilmenau



Business segments



Automatisierung und Digitalisierung



Dr. Thomas Usländer



Dr. Olaf Sauer



Energie-, Umweltund Sicherheitssysteme



Prof. Dr. Peter Bretschneider



Dr. Jürgen Moßgraber



Inspektion und Optronische Systeme



Prof. Dr. Thomas Längle



Dipl.-Wirt.-Ing. Henning Schulte



Künstliche Intelligenz und Autonome Systeme



Dipl.-Ing. Christian Frey



Prof. Dr. Andreas Wenzel



Verteidigung



Dr. Michael Arens



Dr. Jennifer Sander



Employees

Million euro budget Operation and investments

Scientific departments

- Cognitive Energy Systems (KES)
- Embedded Intelligent Systems (EIS)
- Underwater Robotics (UWR)

Locations

- Ilmenau (headquarters)
- Goerlitz
- Rostock
- Berlin



Director: Prof. Dr.-Ing. habil. Thomas Rauschenbach



Director: Univ.-Prof. Dr.-Ing. Peter Bretschneider

Together with our customers, we develop tailored, resilient and future-oriented systems engineering solutions for complex, dynamic and time-varying processes in the fields of energy and water supply, cybersecurity, land and underwater robotics, data spaces and ICT ecosystems, and disinfection. Through our scientific work, we provide significant upstream research for this for the benefit of our customers and for society.





The department "Cognitive Energy Systems" develops and researches pioneering key technologies in the field of energy systems engineering in the areas of energy technology, energy informatics, energy logistics, cyber security, cross-sectoral energy systems and cognitive assistance systems in Germany, Europe and worldwide. Through our long-standing know-how, we make essential contributions to the successful transformation of energy supply systems with our technological solutions for the benefit of our partners.





















Intelligent embedded systems essentially determine today's and future technical developments. We make our contribution through industry-oriented research and development. To this end, we contribute the appropriate systems engineering expertise and are able to implement and validate rudimentary requirements in finished prototypes.

26 07 2023





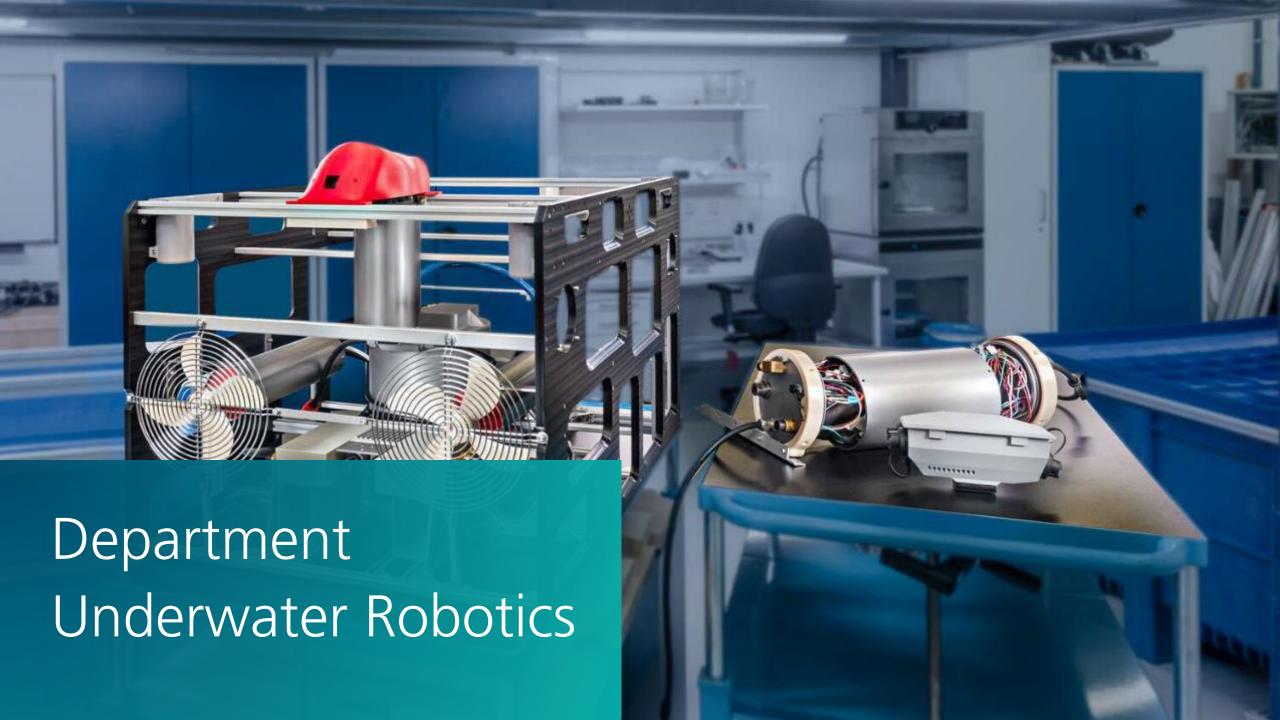


Autonomous mobile robot systems

R&D contract research for methods and systems for localization, environment perception and mapping from consulting services for sensor concept to validation of the entire system in the operational environment.









The department "Underwater Robotics" develops innovative underwater vehicles or robots for exploration as well as for inspection and manipulation tasks on underwater infrastructures. Our partners benefit from our many years of experience in the use of underwater systems and their transfer to industrial solutions. Our concepts contribute to the sustainable use of the oceans.

26 07 2023









Solutions for global challenges

Optimal operational management for water desalination plants in South Africa. Water quality management for aquaculture in Norway. Digital decision support systems for optimized operations management in drinking water and gas supply as well as leakage detection. Reference projects in Saudi Arabia, Kuwait, United Arab Emirates, Libya and Mongolia.



Our customers (selection)

From SMEs to large corporations, from start-ups to research institutions







































Networks and memberships

Benefit from our extensive, cross-industry network

































ENERGY

AMPEERS





The Fraunhofer IOSB-AST as an employer

We set standards with our research: For a successful and safe energy transition. For resilient water systems. For forward-looking autonomous driving systems. For innovative disinfection solutions. In short: cutting-edge technology for complex systems.

Shape this future with us and become part of our

interdisciplinary team.

The Fraunhofer IOSB-AST as an employer

Research and application combined: At eye level with industry. Between present and future scientific excellence.





Diversity inspires: Diverse corporate culture. Freedom for creativity & innovation development. Open research landscape.

Living flexibility: New Work in the HomeOffice or Hybrid. Part-time, full-time, flexible.



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The Fraunhofer IOSB-AST as an employer



Networking connects: Across institutes and internationally. Together with over 30,000 employees.

Create career paths: Excellent development opportunities in the scientific community and the possibility of a doctorate.



#4
FRAUNHOFER-GESELLSCHAFT
by Matural Sciences Students



At home in the heart of Thuringia: Modern institute building. First-class equipped laboratories, meeting points & creative areas. Lunch&Meet in our new canteen.

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Fraunhofer IOSB-AST
Am Vogelherd 90
98693 Ilmenau
03677 461 100
info@iosb-ast.fraunhofer.de
www.iosb-ast.fraunhofer.de



twitter.com/Fraunhofer_AST



