We do research for these markets

Based on our proven topics such as process measurement technology and healthcare, we are constantly expanding and developing new fields of application such as energy, infrared sensors, climate and mobility. Our MEMS and MOEMS business fields combine interdisciplinary technological developments with market knowledge and industry expertise.

Process Measurement Technology

Analytics

Mechanical Engineering

Aviation

Medical & Life Science

Automotive

Renewable Energy

Space Research

High Energy Physics

WE RESEARCH & DEVELOP ALONG THE ENTIRE VALUE CHAIN

... within publicly funded projects.
at state and federal level as well as in EU projects.

... innovations for SMEs or on behalf of industry.
if SMEs do not have their own R&D department or special requirements have to be realized

CiS Forschungsinstitut für Mikrosensorik GmbH

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CiS Forschungsinstitut für Mikrosensorik GmbH

Microsensors for the World of Tomorrow

We develop high-quality, silicon-based sensors, customized microcomponents and microsystems, especially in the fields of MEMS and MOEMS.

From design to prototyping.
Reliable. Long-term stable. Precise.

Competence in Silicon

CiS Forschungsinstitut für Mikrosensorik GmbH is a privately organized, non-profit, business-oriented research institute with around 120 employees.
We are one of the leading institutes for the development of high-quality, silicon-based microsensors and micro systems, especially in the fields of MEMS and MOEMS.

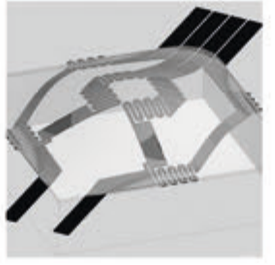
Together with our partners from research and industry, we create new innovations for the technical challenges of our time. In close cooperation with politics and science, we actively assume responsibility for the transfer of know-ledge and the utilization of research results in relation to new and efficient technologies to increase the innovative strength of our economy.

Building on more than 30 years of “Competence in Silicon”, our expertise ranges from R&D services to small series production of customer-specific microcomponents.

From design to prototyping.
Reliable. Long-term stable. Precise.

Portfolio along the entire value chain

Silicon-based sensors are the focus of our research and development activities for industry and science. Our portfolio covers the entire value chain, from application-specific design, process development, assembly and connection technology to customized solutions, including comprehensive measurement technology and analytics. Our focus is on the long-term stability, precision and high reliability of our microsensors.



1. SIMULATION & DESIGN

- Highly specific design workstations
- Software tools for the simulation of sensor properties and technological sub-steps
- Design of customized sensors

  Development of design rules and layouts for mask production

4. ASSEMBLY & CONNECTION TECHNOLOGY

- All technological sub-steps of micro-assembly and housing
- Microelectronic and photonic components

  Microsystem sensor modules

  Prototypes and small series

2. PROCESS DEVELOPMENT

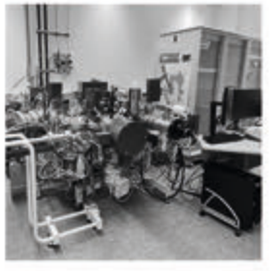
- High-tech expertise within wafer and component manufacturing
- Development of new processes and technology modules

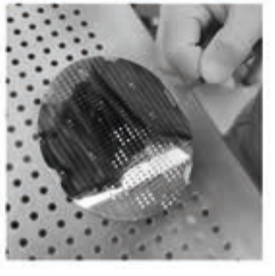
  Subsequent integration into technology processes of research projects and product developments

5. METROLOGY & ANALYTICS

- CiS Analytics Competence Center
- Combination of the latest technology and highly qualified personnel
- Complex metrological investigations

  Special material and surface analyses





3. WAFER-PROCESSING

- Monolithic integration of sensory and electronic functions in silicon wafers and chips
- Microstructuring processes

  Technology platforms for double-sided and three-dimensional structuring

6. PROTOTYPING & SMALL SERIES

- Basic research
- In-house developments
- Applied R&D services
- Technology transfer

  Pilot production and small series production of MST components and microsystems