Selected labs at Fraunhofer AISEC

INDUSTRIAL SECURITY LAB

- Risk analysis and penetration testing for connected production, IoT and building automation
- Realistic, secure test environments
- Training and experimental systems



HARDWARE SECURITY LAB

- Hardware security analyses and penetration testing
- Common Criteria site certification for Evaluation Assurance Level 7
- Pre-audit evaluation of security chips

AUTOMOTIVE SECURITY LAB

- Security analysis for complete vehicles and vehicle components
- Secure, trusted environment certified according to TISAX AL 3
- Development and testing of security measures



Contact

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Fraunhofer AISEC at a glance

Innovating with security



Mission

The Fraunhofer Institute for Applied and Integrated Security AISEC translates excellence in IT security research into applied solutions for greater dependability, trustworthiness and tamper protection in IT-based systems and products.

Facts and Figures

Founded: 2009Employees: 230

Higher Education Connections:
 Technical University of Munich (Prof. Eckert and Prof. Sigl), Freie Universität Berlin (Prof. Margraf) and OTH Amberg-Weiden (Prof. Loebenberger)

International: Partner institute of Fraunhofer Singapore



Challenge for cybersecurity

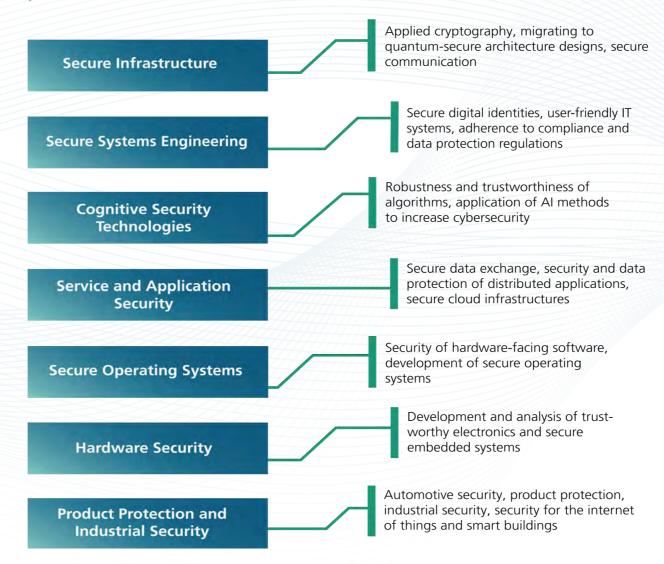
There is huge potential for innovation in cutting-edge technology, but it also presents risks for cybersecurity. Our economy and society are facing major challenges:

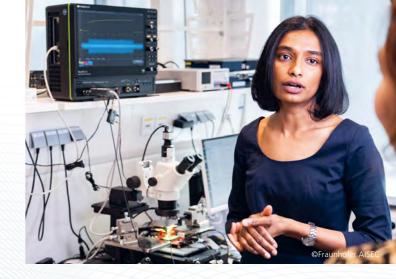
- Abuse of vulnerabilities in the program code
- Data manipulation and theft
- Manipulation of control units
- Automated attacks using AI and deepfakes
- Identity theft
- Threats from quantum computers
- Side channel and error attacks on chips and printed circuit boards

Fraunhofer AISEC offers specialist expertise in the area of cybersecurity based on research excellence. This allows businesses and public research institutions to strengthen their position for the future with tailormade, state-of-the-art technologies.

Areas of expertise

Fraunhofer AISEC supports businesses in protecting systems, infrastructures, products and services.





R&D services and opportunities for collaboration:



Risk analysis



Security tests and analysis



Creating and reviewing IT security concepts



Reference implementations in minimum viable products



Developing testing and analysis tools



Trainings and education



Studies and technology radar