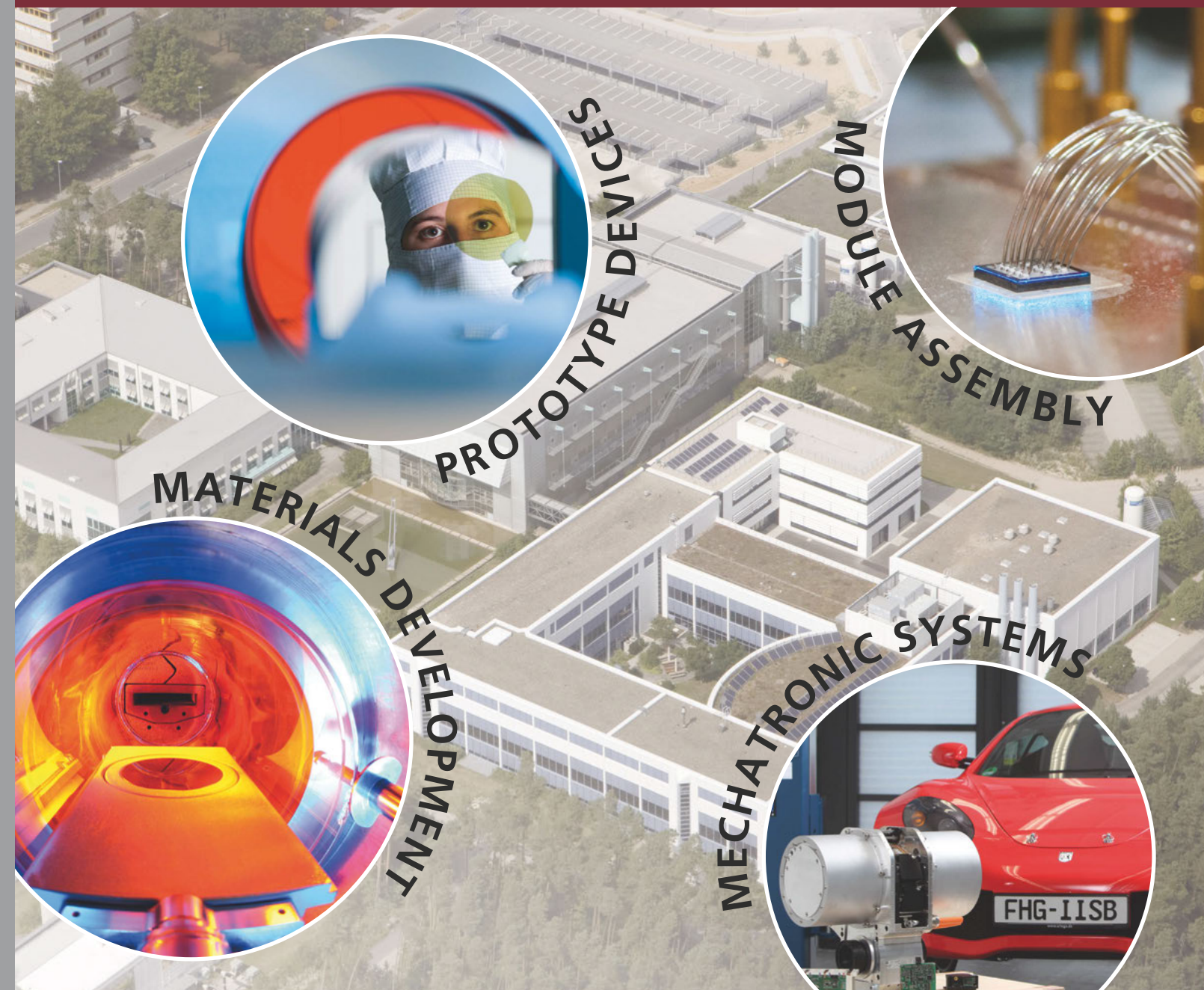


CUSTOM-TAILORED SiC SERVICES



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SiC TOOLBOX @ FRAUNHOFER IISB

FRAUNHOFER IISB OFFERS R&D SERVICES ON SiC FROM MATERIALS DEVELOPMENT AND PROTOTYPE DEVICES TO MODULE ASSEMBLY AND MECHATRONIC SYSTEMS.

Based on IISB's toolbox, customers can utilize the services in order to perform, e.g., design studies, feasibility tests, proofs of concept, or prototype fabrication. Fraunhofer IISB offers competent partnership for contract research and development in bilateral cooperation with industry as well as in public-funded projects.

| | SiC Materials | SiC Devices | SiC Modules | SiC Systems |
|------------------|---------------|-------------|-------------|-------------|
| Objective | | | | |
| Characterization | | | | |
| Simulation | | | | |
| Prototype | | | | |

SiC ACTIVITIES @ FRAUNHOFER IISB

Fraunhofer IISB

The Fraunhofer Institute for Integrated Systems and Device Technology IISB conducts applied research and development in the fields of Power Electronics, Nanoelectronics, Materials for Electronics, Electric Mobility and Energy Electronics.

With its headquarters located in Erlangen, Germany's hotspot for silicon carbide, Fraunhofer IISB has been cooperating with partners from SiC industry and research for more than 20 years.

We are confident that 4H-SiC is the ideal semiconductor for the realization of high voltage and high-power electronic devices due to its outstanding material properties.

Our mission is to make our technology and knowledge in SiC available to our customers in order to support their research, development, manufacturing of devices, modules, and systems.

π -Fab @ IISB

For this, Fraunhofer IISB operates the π -Fab, which comprises a continuous silicon CMOS and silicon carbide process line in an industry-compatible environment. π -Fab supports its customers with specific process steps, such as epitaxy or ion implantation, as well as with the fabrication of customized electron devices. Customer satisfaction and the manufacture of production ready prototypes are our main priority.

SiC @ IISB

On the π -Fab platform, Fraunhofer IISB fabricates 4H-SiC prototype devices and supports customers with its expertise in electron device and materials development in order to promote the commercialization of SiC material and devices.

We provide scientifically supported services in the following fields:

- Materials development
- Prototype devices
- Module assembly
- Mechatronic systems

