

The Fraunhofer Institute of Integrated Systems and Device Technology (IISB) develops power electronics devices and systems in cooperation with industrial partners. The institute covers the whole field from semiconductor device technology up to the engineering of high power density, system integrated power electronics for electrical power conversion and drives. The IISB is developing new equipment and processes for semiconductor manufacturing and crystal growing, as well as simulation tools to characterize the process steps involved in modern microelectronics manufacturing.

#### **Key Research Fields & Competence Areas:**

- Ø Power Electronics and Mechatronics
- Ø Power Semiconductor Device Technology
- Ø Simulation (technology, thermal, electric)
- Ø Crystal Growing
- Ø Semiconductor Manufacturing Equipment

#### **Institute Highlights:**

- Ø “Center for Automotive Power Electronics and Mechatronics” – an IISB subsidiary in Nuremberg
- Ø Several well-equipped power electronics labs
- Ø More than 1000m<sup>2</sup> clean room (class 10, 100) CMOS compatible technology

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