

**Acreo is a research and development institute, working in the field of electronics, optics and communication technology. Acreo assists client companies on a contract basis by developing, refining and transforming research results into industrially viable products. We deliver pre-studies, component design, prototypes and manufacturing processes. Within power electronics we focus on the development and use of Silicon Carbide devices for higher efficiency, smaller size and high temperature operation.**

### Key Research Fields & Competence Areas

- **Power system studies**  
Implementation of SiC technology  
Performance evaluation and benchmarking
- **Device design**  
Design and modelling of novel devices
- **SiC manufacturing**  
4H and 3C material  
Standard steps and new process development
- **SiC epitaxy**  
Multilayer for demanding device design

### Institute Highlights:

- **SiC Power Center**  
Industry R&D cooperation network
- **SiC device development**  
Diodes (JBS, PiN)  
Switches (JFET, MOSFET)  
High voltage edge termination
- **Clean-room semiconductor laboratory**  
Fast prototyping with complete process line
- **Testing**  
Material characterisation and electrical evaluation



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