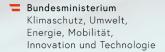


SILICON AUSTRIA LABS

The Austrian Research Center for Electronic Based Systems (EBS)















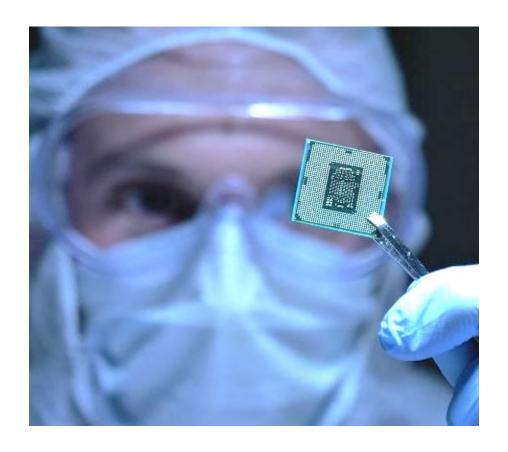


SILICON AUSTRIA LABS

SAL
SILICON AUSTRIA LABS

What do we do?

As a European key player in industry-oriented research in the field of electronic based systems (EBS) & software, we support companies' growth with efficient, sustainable and trustworthy developments along the entire EBS value chain.



KEY FACTS





LOCATIONS

- Graz (HQ)
- Villach
- Linz



EXPERTS

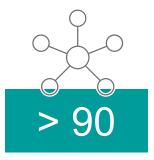
 Experienced & Multidisciplinary team





SHAREHOLDER

- 50,1 % Republic of Austria (BMK)
- 24,95 % FEEI
- 10 % Styria (SFG)
- 10 % State of Carinthia
- 4,95 % Upper Austria (UAR)



PARTNER NETWORK

From Industry & Research

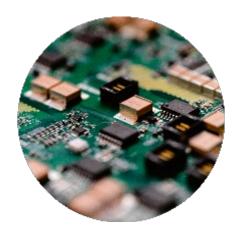
OUR EXPERTISE



SAL Divisions



SENSOR SYSTEMS



POWER ELECTRONICS



WIRELESS SYSTEMS



MICRO-SYSTEMS



EMBEDDED SYSTEMS

SAL AS A RELIABLE PARTNER



Our pillars of success bridging the gap between industry & science









RESEARCH EXCELLENCE

- Multidisciplinary
 experts from 40+
 nations
- SAL Doctoral College
- Part of high-level
 Research Networks
 and conferences

KEY ENABLING TECHNOLOGIES

- More-than-Moore,
 Photonics, 6G, High
 Power Density
 Converters,
 Dependable EBS
- System Integration Program

STRATEGIC PARTNERSHIPS

- 90+ partner from industry & science
- Longterm program "Chip2Sys"
- EDIH "Cyber-physical systems"

INFRASTRUCTURE & EQUIPMENT

- High-end labs &
 equipment to enable
 research far beyond
 state-of-the-art:
 - Cleanroom ISO 4+5
 - Power Electronics Lab
 - Smart EBS Testing
 - 5G Testbed...etc.

SAL BENEFITS FOR INDUSTRY



What do we offer?

Industry oriented research

SAL experts conduct research along the entire EBS value chain: from the semiconductor industry to system integrators and industrial users.

R&D services

Our service portfolio includes customized solutions for our partners:

- □ Design & Simulation
- Characterizations
- Measurement and testing services
- Manufacturing in the field of micro- and nanotechnologies (TRL: 2-7)

Cooperation

We offer our partners various possibilities of cooperation: from our unique **SAL cooperation model** (50% of the project costs are covered by SAL), **contract research** to **funded research**.



OUR BUSINESS MODELS



How to work together

SAL Cooperative Research

Purpose:

- Easy accessible cofinancing for R&D projects with SAL
- Long term R&D cooperations (>1year)

Organisational Framework:

- Project Evaluation by SAL
- SAL General Contract Terms
- SAL Project Agreement
- IP-rules are in line with the european state aid law

Advantages:

- 50% co-financing by SAL
- Bi/multilateral cooperation possible
- No application process necessary

Contract Research

Purpose:

- Technology Concepts
- Test & Measurement Campaings
- Feasibility Studies
- Proof of Concept Studies
- (Rapid) Prototyping

Organisational Framework:

Quote – Order Process

Advantages:

- Fast project start
- No further contractual framework necessary
- Fixed price
- Clearly defined deliverables

Funded Research



R&D Services

Design and **simulation**, **characterizations**, **measurements** and **testing** up to **manufacturing** in the field of micro- and nanotechnology

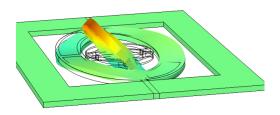
Silicon Austria Labs GmbH 7

SUCCESSFUL PROJECTS



Range of projects

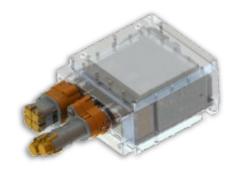
AUTOMOTIVE



Micromirror

- Dynamic light projection for road lighting with ability to implement distance measurement
- Power consumption potentially lower (smart light management)
- Cost efficient (less optical components)
- Partner: ZKW, TDK, EVG, Evatec

AUTOMOTIVE/INDUSTRY



Tiny Power Box

- Onboard Charger for Automotive / Industrial Forklift
- Bidirectional, Same power density than existing ones, Reduction in size: 80%, reduction in weight: 50%
- Partner: AVL, AT&S, TDK, Infineon, Fronius

ENERGY & EFFICIENCY



PREMI

- Development of novel & optimized methods for modeling & simulation of EMI, especially to pre-estimate during the design phase
- Lower design time and costs
- Partner: Magna, Tridonic, TUG

CONTACT





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