

**power your  
research.**



Job position in  
Power Electronics



Become part of Silicon Austria Labs (SAL) – the top research center for electronic based systems (EBS). Unfold the future, unfold yourself.

In the network of science and industry, the center offers research in four pioneering divisions: Sensor Systems, RF Systems, Power Electronics and System Integration.

**SAL – a great place to research.**

# Head of Research Unit

## POWER ELECTRONICS ARCHITECTURE & DESIGN

High Tech Campus Villach, Europastraße 12, 9524 Villach, Austria

### YOUR FUTURE RESPONSIBILITIES

- Converting new architectures and concepts into innovative device, module and system designs
- Drive innovation of different integration technologies to foster new power electronic architectures
- Building up a new team focusing on innovative solutions for power electronic systems
- Developing the team to reach scientific excellence and according to the midterm plan and project portfolio
- Development of research program and project portfolio together with division head and peers
- Creation of the necessary R&D working environment and lab infrastructure
- Budget and resource planning and controlling of research unit

### YOUR PROFILE

- Finalized study of Electrical/Electronic Engineering, PhD
- At least 5 years experience in developing concepts and architectures of power electronic circuit designs, modelling, simulation, build and validation of those systems
- Multi-year experience in planning and execution of research and development projects with scientific/innovative targets in the area of power electronics
- Excellent knowledge of power converter architectures and concepts
- Setting up and managing of research project together with different industrial and scientific partners

### IMPORTANT FACTS

- Beginning of the employment: as soon as possible
- This position is endowed with a gross annual salary of € 59,822 based on the collective agreement for research („Forschungs-Kollektivvertrag“) and depending on your experience and skills.

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## POWER ELECTRONICS CONTROL & SYSTEMS

Campus TU Graz, Inffeldgasse 25F, 8010 Graz, Austria

### YOUR FUTURE RESPONSIBILITIES

- Developing new system concepts based on system level model-based design methodologies
- Research on new optimization methodologies for power electronic systems
- Building up a new team focusing on innovative solutions for power electronic systems
- Developing the team to reach scientific excellence and according to the midterm plan and project portfolio
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# Head of Research Unit

## POWER ELECTRONICS MODELLING & SIMULATION

High Tech Campus Villach, Europastraße 12, 9524 Villach, Austria

### YOUR FUTURE RESPONSIBILITIES

- Strongly improve modelling and simulation methodologies to allow multi-physics and functional simulation from circuit up to system level
- Develop methodologies to optimize architectures towards power density, efficiency, reliability and cost
- Building up a new team focusing on innovative solutions for power electronic systems
- Developing the team to reach scientific excellence and according to the midterm plan and project portfolio
- Development of research program and project portfolio together with division head and peers
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