GreenChips-EDU

Educate for a Sustainable Tomorrow

Who is involved:	7 Higher Education Institutions, 6 Business & Training partners, and one Research center from 6 EU Countries
Participating countries:	Austria, Croatia, Italy, Germany, Spain, France, Portugal
Participants:	TU Graz, PoliTo, TU Darmstadt, UPC, INP Grenoble, IST, CUAS, Infineon Technologies, Končar, Silicongate, Aedvices Consulting, R.U.S.Z., Business Konsens, INESC-ID
Start date:	01/10/2023
End date:	30/09/2027
Coordinator:	TU Graz

Co-funded by the European Union

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Contact information

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Higher Education Institutions

TU Graz Graz University of Technology

Politecnico di Torino

Technische Universität Darmstadt

Grenoble INP UGA

Universitat Politècnica de Catalunya BarcelonaTech

Kärnten University of Applied Sciences

Técnico Lisboa

Business & Training Partners

Infineon

SiliconGate Powering your Success

Business Konsens

aedvices

Reparatur- und Service-Zentrum R.U.S.Z

Končar Electronics and Informatics

Research Institution

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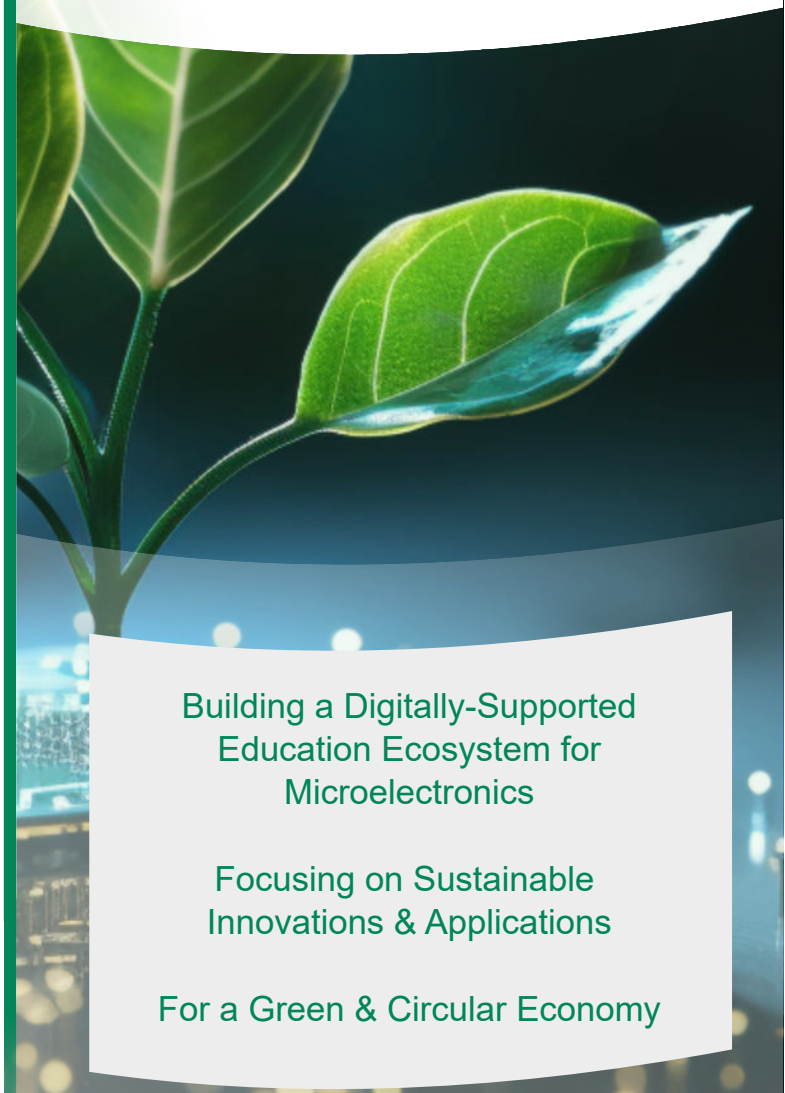


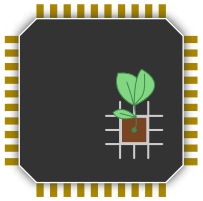
Building a Digitally-Supported Education Ecosystem for Microelectronics

Focusing on Sustainable Innovations & Applications

For a Green & Circular Economy

Digital Shift Boosts Semiconductor Demand

The global transition towards digital and green technologies is driving a growing demand for **semiconductors**, leading nations worldwide to invest heavily in **microelectronics** programs.



EU Chips Act Faces Challenges

In Europe, the **EU Chips Act** sets an ambitious target of capturing a **20% share of global semiconductor production by 2030**. Despite this, Europe faces a significant shortage of skilled workers in this sector.

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Training Future Semiconductor Leaders

GreenChips-EDU aims to address this gap by offering innovative and redesigned educational training content. The project introduces harmonized **Master's degrees**, a new **Bachelor's degree**, standalone training modules, and an **MBA** program tailored for professionals.

The goals of GreenChips-EDU

Our goal is to **educate and train the next generation of talent urgently required by the semiconductor industry**. GreenChips-EDU places special emphasis on cultivating skills and knowledge that contribute to a **green and circular economy**, highlighting the importance of sustainable and environmentally friendly applications.

- Develop an **education ecosystem for green microelectronics** by fostering **collaboration** between educational institutions, training and industry partners.
- Promote **student** and **staff mobility** by harmonised curricula, a shared **digital learning platform** and infrastructure upgrades.
- Enroll approx. **600 students** towards a **green microelectronics degree** during the course of the project to meet the growing demand for skilled professionals in the field.
- Launch initiatives such as **summer schools** for hands-on **experiences**, **hackathons** to foster innovation, **learn-repair cafés** to promote sustainability, and **expert lectures** for knowledge exchange.