

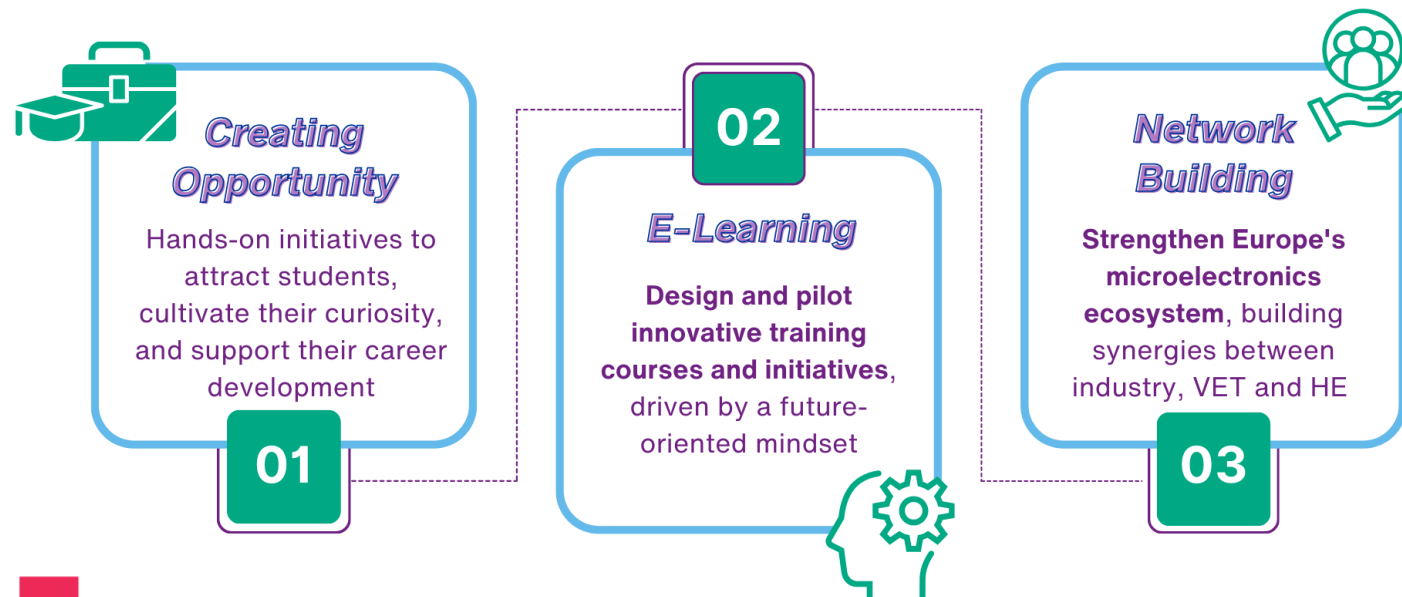
European Chips Skills Academy

Victoria Cummings
Senior Manager Workforce
Development and EU Projects



European Chips Skills Academy

Creating an **Alliance** between educational systems and the microelectronics industry to develop a decentralized **Academy** to meet the growing demands for skills.



Year One



ECSA Skills Strategy Report quantified the talent gap in the European Semiconductor industry and highlighted critical skills needs and in-demand job profiles



Created the **Educational Leaders Board** to align curricula across Europe and support high quality course development



Launched the **ECSA E-Learning Platform** for training, education, and networking



Grew the **European Chips Skills Alliance** to over 140 member companies/universities



ECS Summer School, developed in collaboration with AENEAS, EPoSS, and Inside



First **Student Forum** hosted at TU Delft on 24 April with 120 attendees



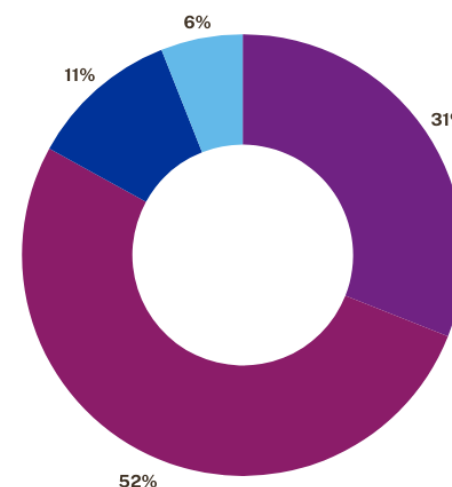
Student Ambassador program with 28 active ambassadors in the first 6 months

Skills Strategy

- Annual report on critical job profiles and skills needs in the European Semiconductor industry
- 2024 edition includes a detailed projection of **talent gap** for the first time
- In addition to the roles facing a shortage, the report finds **AI**, **ML**, **data analysis**, and **system architecture** skills as the most sought after yet hardest to find.

Talent gap in semiconductor industry by 2030

A talent shortage of **75,390 job positions** in Europe



52% Estimated talent gap for hardware engineers

31% Estimated talent gap for technician roles

11% Estimated talent gap for software engineers

6% Estimated talent gap for data specialists

This shortfall corresponds to 36% of the overall industry demand, indicating that the estimated supply may cover only 64% of the expected demand.

Educational Leaders

Pan-European network of educational providers to:

- Support high-quality standards for ECSA training and education materials
- Provide insights from academia on topics such as the Skills Strategy
- Facilitate student exchanges, university level outreach, and best practice sharing



Prof. Salvatore Moccia, Ph.D.

EIT Digital



Professor Mikael Östling

KTH Sweden



Professor Pascal Le Masson

Mines ParisTech



Professor Marian Verhelst

KU Leuven



Professor Peter Kennedy

University College Dublin



Professor Balázs Illés

BME



Doc. Ing. Jifí Háze Ph.D.

Brno University Of Technology



Dr. Konstantinos Petridis

Hellenic Mediterranean University



Professor Enrico Sangiorgi

University Of Bologna



Prof. Dr. Ronald Tetzlaff

TU Dresden



Prof. Olivier Bonnaud

University Of Rennes



Dr. Alan Morrison

University College Cork



Professor Oscar Casanova

Polytechnic University Of Madrid



Jeanette Goecke

SupraFix



Maria Cristina Pagura

IAL-FVG



Jörg Stephan

Fraunhofer Institute



Prof. Dr. Hussam Amrouch

TU A

E-Learning Platform

- Dedicated microelectronics e-learning platform launched in July 2024
- Currently offers 19 courses completely free of charge
- The next wave of course development will begin in the ECSA project in December

Introduction to Scrum & Kanban for semiconductor product development

⌚ 40 minutes | Learning Hours: 3h | level: Intermediate | category: Agile Management | 🗣 -

Keywords

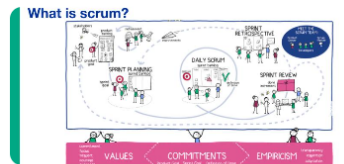
Agile Lean Kanban

Description

Learn to use Scrum & Kanban frameworks to *improve the semiconductor product development process*.

Curriculum

1. Scrum ⌚ 21 minutes	^
▶ 1.1. Agile. Origins, principles and applicability in semiconductors	⌚ 5 minutes
📄 1.1. EXERCISES Agile	⌚ a minute
▶ 1.2. Introduction to Scrum and overview of the framework	⌚ 9 minutes
📄 1.2. EXERCISES Scrum	⌚ a minute
▶ 1.3. Scrum in the context of semiconductor product development	⌚ 5 minutes
2. Kanban ⌚ 19 minutes	^
📄 2.1. EXERCISES Lean applied to knowledge work	⌚ a minute
▶ 2.2. Introduction to Kanban and overview of the framework	⌚ 8 minutes
📄 2.2. EXERCISES Kanban	⌚ a minute
▶ 2.3. Kanban reporting essentials	⌚ 9 minutes
3. Knowledge check ⌚ -	^
🎯 Introduction to Scrum & Kanban: Knowledge Check	
Finish	^
🏁 Finish course	



★ - / 5.0 no reviews

▶ Enroll

Stijn Decneut from Melexis

Stijn is Senior Program Manager Global Product Development & Global Leadership and Culture Development at Melexis. He builds on a lifelong passion for sciences, in particular engineering, systems science, and cognitive neuroscience. Stijn has over 20 years of experience leading and serving R&D teams, focusing on agility and innovation. Stijn: "I have enough expertise in all things Lean and Agile to know that business success takes more than frameworks or methods. I foster learning from constructive criticism and systems thinking."

Audiences

- ✓ Engineers developing semiconductor products.
- ✓ Managers responsible for semiconductor product development.

Requirements

- ✓ Basic understanding of semiconductor product development cycle



ECS Summer School

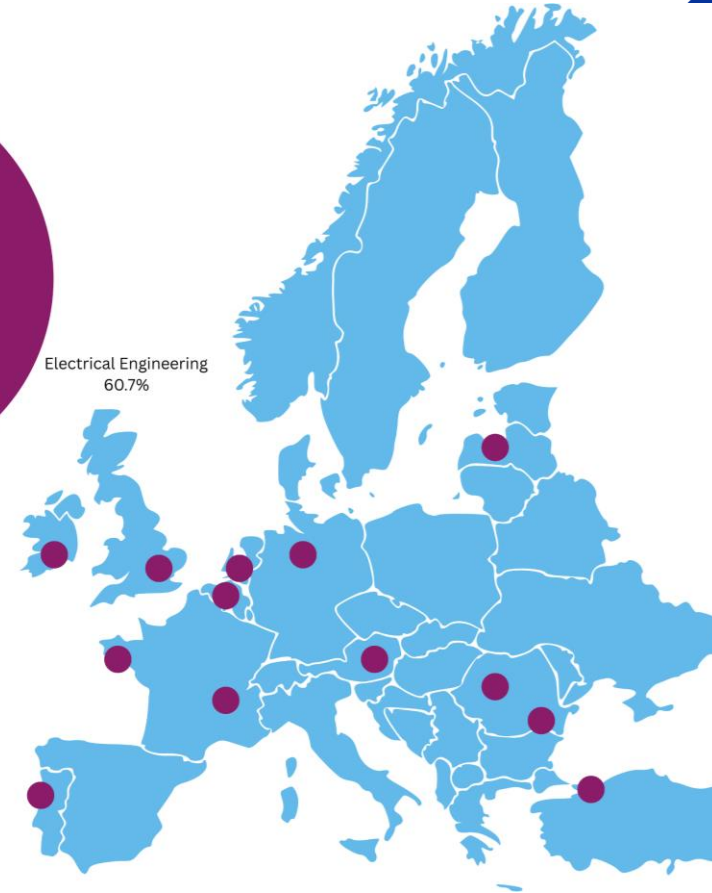
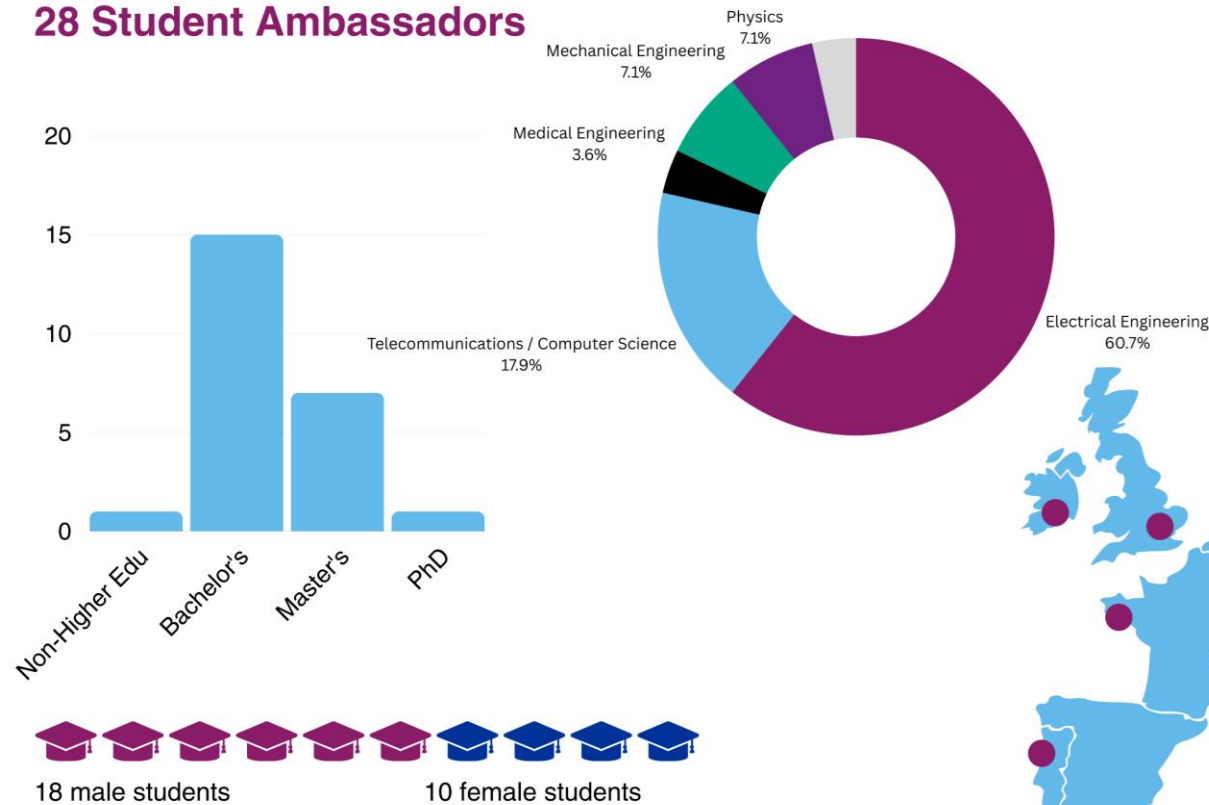
- Developed in collaboration with AENEAS, EPoSS, and Inside who first piloted the school in 2023.
 - 2024 edition was held on 18 – 23 August in Bertinoro, Italy.
- Lectures from ASML, CEA-LETI, Infineon, ST, Bosch, + many more!
- 40 students were selected from over 200 applicants (20 men / 20 women)
- Overall approval rating of **9.34**!



Student Ambassadors

- Program started to support ECDSA's promotion to students
- Offers ambassadors activities to engage with industry and academia
 - Interviews with professionals
 - Company tours
 - Support for student ideas like the Student Forum

28 Student Ambassadors



ECSA Student Forum

- Hosted at TU Delft on 24 April
 - 222 students registered and ~ 120 attended
- Program included:
 - Speakers from industry showcasing different semiconductor applications / jobs
 - Student research presentations
 - Panel discussion with students, professors, and industry on barriers for students
- Next edition coming soon!



European Chips Skills Alliance



**EUROPEAN CHIPS
SKILLS ALLIANCE**

Over 200 members from **141 different companies**

Universities
VET providers
RTOs



Industry

A EUROPEAN NETWORK FOR MICROELECTRONICS EDUCATION AND SKILLS

3 active Working Groups on **Skills** intelligence, **Education** & training, and **DEI**

Sign up using
the QR code!



What to watch for in 2025



Next editions of the
Student Forum, Summer
School



Expansion of the training
catalogue



Growth of ECSA network,
student ambassadors



New initiatives reaching
different target audiences

Where to find us

- Stay up to date on latest events and activities through our website → ChipsAcademy.eu

Follow ECSA on social media:



[European Chips Skills Academy](https://EuropeanChipsSkillsAcademy)



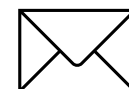
@EuropeanChipsAcademy



europeanchipsskillsacademy



@ChipsAcademy



vcummings@semi.org

