METIS

Microelectronics Skills Strategy

About Metis

Co-funded by the Erasmus+ programme and coordinated by SEMI Europe, METIS embodies excellence in microelectronics. The 4-year project, launched in November 2019, connects microelectronics industry start-ups, SMEs and large firms with national and EU industry associations, formal educational providers and regulatory bodies in the field of accreditation and certification.

METIS aims to bridge the skills gap in microelectronics for a more competitive Europe. To do that, we are bringing together stakeholders from all facets of the value chain to develop a comprehensive Microelectronics Skills Strategy, providing much-needed skills intelligence for the sector.

In particular, the goal of the Microelectronics Skills Strategy is to provide up-to-date skills intelligence by:

- **Analysing the skills demand** with inputs from the industry and mapping the current skills challenges for employers

- **Assessing the skills supply,** investigating the current VET provision

- **Highlighting skill mismatches** between the industry needs and the current educational provision

- **Defining jobs of the future** and monitoring trends in skill needs, to develop foresight scenarios

- **Emphasizing best practices** of public and private initiatives that have brokered multi-stakeholder models to bridge skill gaps

- **Creating an action plan** with targeted measures for the implementation of the strategy.

How does it work?

To achieve the best representation, a broad consultation will take place, with the participation of stakeholders from industry, education, professional bodies, NGOs, international organisations, governments, etc.

How will METIS engage with the microelectronics community?

Focus groups/workshops

- 1–3 online meetings until the fall of 2020
- They target specific focus group themes:

1 Materials for semiconductors
Microelectronics skills issues from the point of view of materials companies

2 Semiconductor manufacturing equipment
Microelectronics skills issues from the point of view of semiconductor manufacturing equipment companies

3 Semiconductor devices and systems manufacturing
Microelectronics skills issues from the point of view of semiconductor manufacturing companies

4 Semiconductor devices and systems design
Microelectronics skills issues from the point of view of semiconductor design companies

5 Edge AI
Microelectronics skills/knowledge needed to harness the potential of Edge AI

6 Microelectronics & automotive
Microelectronics skills needs in automotive (focused around autonomous driving)

7 Diversity in electronics
The place of women and other under-represented groups in Electronics

8 Validation of education
Good practices developed within Erasmus+ projects / Assessing d ifferences among national education & training systems

9 EU policy perspective
The view of EU policy makers

10 Education 4.0
The perspective of education on new skills needs in electronics manufacturing in view of industry 4.0

Interviews

- 50 interviews with representatives from the entire value chain
- Conducted online
- Aiming at sectoral analysis:
  - Main trends affecting the microelectronics sector (AI, demographic trends, etc.)
  - Skills/knowledge that are/will be in high demand
  - Differences in skills supply between EU countries
  - Description of mismatches between skills demand and supply
  - Best practices from industry/education/government collaboration initiatives
  - Foresight scenarios for the skills development of the sector
  - Policy recommendations

Online questionnaire

- Closed-type questions, with 5-7 minutes completion time
- Quantitative results: Estimation of the skills/knowledge needs by value chain level, by EU country and by company size
- To be published from July 2020

Get involved!

Participate in one or more focus groups to:

- **Grow your network** and connect with peers and experts to discuss the future of microelectronics skills

- **Discover first the latest microelectronics skills** intelligence and foresight scenarios

- **Contribute to bridging** the sector's skills gap

- **Take part in influential reports** that impact European and national policies

Register [here](#) to participate!

Are you interested in a **personal interview** on micro-electronics skills? Your input is valuable! Email us at contact@metis4skills.eu to find out more and share your insights!

Do you want to know more about the Skills Strategy and stay up-to-date with METIS? **Register to receive our [Newsletter!](#)**

FIND OUT MORE

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