

SMART MATERIALS AND PHOTONICS

A proven ecosystem for advanced electronics and photonics

Subsectors in numbers:

10%

Share of Electronics industry
value-added in GDP

65+

Years on Semiconductor's
Market (ALFA RPAR JSC)

>3,5

Billion annual
turnover

2

space missions featuring
Latvian technologies: Lunar
Gateway and ESA Hera

2

World records in Silicon
photonics technologies for high-
speed optical interconnects

A scalable talent pipeline for advanced manufacturing and deep-tech growth



37 000+ specialists

Electronics, photonics, and
sensor-related fields



#1 among OECD

by the share of women in science,
technology and innovation.



~19 000 students

Engineering, manufacturing
and construction fields (2024)

Sector Relevant Education Institutions and Initiatives in Latvia



RIGA
TECHNICAL
UNIVERSITY



INSTITUTE OF
ELECTRONICS AND
COMPUTER SCIENCE



TRANSPORT AND
TELECOMMUNICATION
INSTITUTE



Latvia University
of Life Sciences
and Technologies



UNIVERSITY OF
LATVIA



INSTITUTE OF SOLID STATE PHYSICS
UNIVERSITY OF LATVIA



Institute of Mathematics and Computer Science
University of Latvia



Forums



Techchill

The leading tech and
startup event in the Baltics
for innovation leaders.

📍 Riga



Deep Tech Atelier

The most significant deep tech event in
the Baltics, where science, startups, and
global investors meet.

📍 Riga



ABSL LatviaConference

The main event for Latvia's business
services sector. Focuses on digital
transformation, AI, and automation.

📍 Riga



Techritory

An international forum on technologies
and digitalisation in the EU.

📍 Riga



Baltic Security Conference

Focuses on key topics like
defence, cybersecurity, and
military technology, emerging threats, NATO
strategies, and
innovation in defence.

📍 Riga

2026

March

May

June

October

November

Industry leaders



III Lightspace



LIGHTGUIDE



CeramOptec

