

Photonics R&D&I Diplomacy Program in South Korea

Overall objective of the programme: to introduce participating Lithuanian photonics companies and their R&D and innovation interests to leading South Korean research and innovation actors, explore opportunities for bilateral R&D collaboration, and identify potential pathways for joint projects, knowledge exchange, and long-term partnerships.



South Korea is one of the world's most advanced photonics and high-tech manufacturing hubs, with strong demand for laser, optics, semiconductor, display, and medical technology solutions. Home to global industry leaders and a highly innovation-driven ecosystem, the country offers exceptional opportunities for business partnerships, technology transfer, and market expansion.

The **Lithuanian Laser Association** is organizing an R&D and innovation diplomacy mission to South Korea on 2–6 November, 2026. The mission is open to all Lithuanian photonics sector stakeholders seeking to establish R&D collaborations with South Korea's leading research and innovation centers.

PRELIMINARY PROGRAM

October 31/November 1
Arriving to KOR

November 2, Pohang

POSTECH ([Pohang University of Science and Technology](#))

One of South Korea's leading research universities, internationally recognized for excellence in science, engineering, photonics, advanced materials, and innovation-driven research.

The visit to POSTECH will include a **technology workshop** involving POSTECH researchers, companies from the local innovation ecosystem, and the Lithuanian delegation, as well as laboratory visits presenting the university's photonics and advanced technology infrastructure. The session will serve to introduce participating Lithuanian companies and their R&D interests, discuss application areas relevant to Korean and Lithuanian stakeholders, and explore potential pathways for future collaboration.

- Laser technologies, using ultrashort pulse lasers (for SEMI and electronics);
- Laser spectroscopy;
- High-energy research: Pohang accelerator beamline and laser wake field acceleration;
- Laser communication, space and defence.

November 3-4, Busan

Participation in ISMP (International Symposium on Microelectronics Packaging) planned as part of the R&D and innovation diplomacy programme, serving as a platform for targeted networking, meetings with relevant Korean stakeholders, identification of potential R&D partners, and exploration of collaboration opportunities in advanced packaging and semiconductor-related photonics applications.

- Electrical/mechanical/thermal/optical packaging design & analysis;
- Semiconductor packaging: Flip Chip Bonding, Hybrid bonding, RDL Process, 2.5D SiP technology, 3D packaging process and technology;
- Methodologies and materials for substrate and interposer-based packaging technology;
- Precision measurement techniques.

November 5, Daejeon

KIMM ([Korean Institute Machinery & Materials](#))

A leading South Korean government-funded research institute specializing in advanced machinery, manufacturing technologies, robotics, and industrial innovation, supporting the competitiveness of Korea's high-tech industries.

The workshop at KIMM will bring together KIMM researchers, the Lithuanian delegation, and representatives of local industry to exchange expertise, present company-relevant R&D interests, and explore joint project opportunities in advanced laser-based manufacturing technologies.

- Laser technologies, using ultrashort pulse lasers (for SEMI and electronics);
- Integration of Laser Systems into Smart and Automated Manufacturing Platforms;
- Laser Surface Structuring and Functionalization for Industrial Applications.

KAIST ([Korea Advanced Institute of Science & Technology](#))

A premier science and technology university, renowned for cutting-edge research, innovation, and entrepreneurship in fields such as engineering, artificial intelligence, robotics, and advanced technologies.

The visit to KAIST will include a round-table discussion on lasers and photonics for space applications with KAIST representatives and the Lithuanian delegation, providing a platform to exchange views on emerging application areas, introduce Lithuanian photonics capabilities, and explore opportunities for future R&D cooperation.

November 6, Gwangju

GIST ([Gwangju Institute of Science and Technology](#))

A leading South Korean research university recognized for its excellence in science and engineering, with strong expertise in photonics, advanced materials, artificial intelligence, and emerging technologies. APRI – Advanced photonics research institute.

The visit to GIST/APRI will include a round-table introduction with GIST/APRI representatives and the Lithuanian delegation, focused on ultrafast lasers, laser applications, advanced photonic devices, and high-power laser systems, followed by discussions on mutual interests, research capabilities, and potential cooperation opportunities. The programme will also include a site visit.

November 7

Flight to LTU

The programme is indicative and subject to change.

PROGRAMME FEE: 1800 Eur

For registration and details, please
contact: info@ltoptics.org