

EU-Funding Opportunities PHOTONICS

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Horizon Europe

https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe_en

Pillar I	Pillar II	Pillar III
<p>Excellent Science</p> <p>European Research Council</p> <p>Marie Skłodowska-Curie Actions</p> <p>Research Infrastructures</p>	<p>Global Challenges and European Industrial Competitiveness</p> <p>Clusters</p> <ul style="list-style-type: none"> Health Culture, Creativity and Inclusive Society Civil Security for Society Digital, Industry and Space Climate, Energy and Mobility Food, Bioeconomy, Natural Resources, Agriculture and Environment 	<p>Innovative Europe</p> <p>European Innovation Council</p> <p>European Innovation Ecosystems</p> <p>European Institute of Innovation and Technology</p>

Photonics is everywhere!

~~Specific programme: European Defence Fund~~ Wait for FP10!

Complementary programme: Euratom Research and Training Programme

Missions

[European partnerships](#)



European Partnerships

PILLAR II - Global challenges & European industrial competitiveness

CLUSTER 1: Health	CLUSTER 2: Culture, Creativity, Inclusive Societies	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bio-economy, Agriculture, Env...
Innovative Health Initiative	Resilient Cultural Heritage*	Chips (formerly KDT)	Clean Hydrogen	Circular Bio-based Europe
Global Health Partnership	Social Transformations and Resilience*	Smart Networks & Services	Clean Aviation	R&I in the Mediterranean Area (Art. 185)
Transformation of health systems		High Performance Computing	Single European Sky ATM Research 3	Biodiversa+
Chemicals risk assessment		European Metrology (Art. 185)	Europe's Rail	Climate Neutral, Sustainable & Productive Blue Economy
ERA for Health		AI-Data-Robotics	Connected and Automated Mobility	Water4All
Rare diseases		Photonics	Batt4EU	Animal Health & Welfare
One-Health Anti Microbial Resistance		Made in Europe	Zero-emission waterborne transport	Accelerating Farming Systems Transitions
Personalised Medicine		Clean steel – low-carbon steelmaking	Zero-emission road transport	Agriculture of Data
Pandemic Preparedness		Processes4Planet	Built4People	Safe and Sustainable Food System
Brain Health*		Global competitive space systems	Solar Photovoltaics*	Forests and Forestry for sustainable Future*
		Innovative Materials for EU*	Clean Energy Transition	
		Virtual Worlds*	Driving Urban Transitions	
		Textiles of the Future*		
		Raw Materials for the Green and Digital Transition*		

■ Institutionalised partnerships (Art 185/7)

■ EIT KICs

■ Co-programmed

■ Co-funded

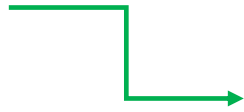
* Under preparation



Photonics is Everywhere – And then?

This is typically where you need Artificial Intelligence!

Prompt 1 (Photonic Techno): In these Work Programmes published by the European Commission on December 11, could you extract all call topics which are related to optics and photonics or susceptible to use photonic technologies?



21 Call Topics identified

Prompt 2 (Broader electronics): In all these 5 Work Programmes published by the European Commission on December 11, could you extract all call topics which are related to electronics hardware which might include photonic technologies?



178 Call Topics identified

The 21 Call Topics identified in the WP published on Dec. 11, 2025

Call Topic	Title of the Call Topic	Deadline for submission	Total budget available (EUR)	Indicative budget per project (EUR)	Expected number of projects to be funded
HORIZON-CL5-2026-03-D3-12	Long-lifetime and optimised use of materials in recyclable Ag and In-free Si PV modules (EUPI-PV Partnership) (RIA)	31.03.26	15 000 000	5 000 000	3
HORIZON-CL6-2026-02-FARM2FORK-06	Advanced innovative solutions for improved competitiveness and sustainability in controlled environment agriculture (IA)	14.04.26	12 000 000	6 000 000	2
HORIZON-CL4-2026-04-DIGITAL-EMERGING-14	Networking and Future Photonics Strategy (CSA) (Photonics Partnership)	15.04.26	3 000 000	3 000 000	1
HORIZON-CL4-2026-04-DIGITAL-EMERGING-18	Large-Scale Photonic Quantum Computing Platform Technologies (RIA)	15.04.26	10 000 000	10 000 000	1
HORIZON-CL4-2026-04-DIGITAL-EMERGING-11	Grand Challenge on Quantum Sensors for Inertial Navigation (CSA)	15.04.26	2 000 000	500 000	3
HORIZON-CL4-2026-05-MAT-PROD-25	New or enhanced Innovative Advanced Materials (IAM) enabled sensing functionality (RIA)	15.04.26	22 500 000	7 500 000	3
HORIZON-CL5-2026-07-D1-01	Next generation climate monitoring and related capabilities (RIA)	15.04.26	15 000 000	5 000 000	3
HORIZON-HLTH-2026-01-IND-03	Regulatory science to support translational development of patient-centred health technologies (RIA)	16.04.26	19 600 000	4 000 000–6 000 000	4
HORIZON-CL3-2026-01-BM-01	Advanced border surveillance and situational awareness (IA)	05.11.26	12 000 000	6 000 000	2
HORIZON-CL3-2026-01-DRS-03	Development of innovative tools, processes, equipment and technologies through responses to disasters and emergencies for search and rescue in hazardous conditions (IA)	05.11.26	8 000 000	4 000 000	2
HORIZON-CL5-2026-11-D3-14	Improved system design for innovative PV applications (EUPI-PV Partnership) (IA)	01.12.26	30 000 000	7 500 000	4
HORIZON-CL5-2027-01-D1-07	Advancing understanding, modelling and prediction of extreme events in a changing climate (RIA)	04.03.27	18 000 000	6 000 000	3
HORIZON-CL4-2027-05-DIGITAL-EMERGING-03	Advanced integrated photonic devices for extended features and ultra-low power consumption (RIA) (Photonics Partnership)	18.03.27	25 000 000	3 000 000–5 000 000	6
HORIZON-CL5-2027-02-D3-15	Production technologies for solar photovoltaics beyond the state-of-the-art (EUPI-PV Partnership) (IA)	31.03.27	36 000 000	12 000 000	3
HORIZON-HLTH-2027-02-IND-02-two-stage	Portable and versatile Point-of-care diagnostics (IA)	13.04.2027 (22.09.2027, 2nd stage)	39 300 000	5 000 000–7 000 000	6
HORIZON-CL6-2027-01-BIODIV-01	Integrating Remote Sensing and in-situ observations of Biodiversity, towards a fully interoperable observation and data framework (RIA)	22.09.27	10 000 000	5 000 000	2
HORIZON-CL6-2027-01-BIODIV-03	Technical innovation to protect ecosystems and to scale up their restoration (IA)	22.09.27	14 000 000	7 000 000	2
HORIZON-HLTH-2027-03-TOOL-04	Virtual Human Twins (VHTs) for integrated clinical decision support in prevention and diagnosis (RIA)	22.09.27	39 300 000	10 000 000	4
HORIZON-CL6-2027-02-FARM2FORK-08	AI-powered foodome characterization (IA)	23.09.27	7 800 000	7 800 000	1
HORIZON-CL3-2027-01-BM-03	Detection and characterisation of threats or illegal/ smuggled goods in cargo (RIA)	04.11.27	14 000 000	3 500 000	4
HORIZON-CL5-2027-07-D3-16	Industrial processes and equipment for innovative, reliable and scalable tandem technologies (EUPI-PV Partnership) (IA)	01.12.27	28 500 000	9 500 000	3

Past Deadlines

Photonics Partnership



ECS IA Resilience “Photonics”

HORIZON-JU-Chips-2026-FT2-IA

Deadline: 17 September 2026

~10 M€ (EC contribution per project à budget/project is about 20-28 M€ depending on the mix of academic and industry partners)

Funding scheme: 35% funding from the Chips JU (EC), 35% from SERI and 30% own funding

Proposals submitted to this call are expected to address several of the following elements:

- **Scaling of wafer-level photonic processes** for key materials (e.g. SiN, InP, GaAs), including process integration, yield optimisation, and manufacturability at high volumes.
- **Development of packaging and test solutions** that are scalable, automated, and compatible with co-packaged optics and advanced photonic-electronic integration.
- **Integration of heterogeneous materials and components**, such as on-chip lasers, modulators, and detectors, using advanced packaging and assembly approaches.
- **Design-process-equipment co-optimisation**, enabling repeatable, cost-effective production of complex photonic circuits and systems, including use of PDKs and validated building blocks.
- **Demonstration of system-level functionality** through application-relevant use cases in strategic sectors (e.g. AI, sensing, telecommunication, mobility, health, defence), with quantified performance metrics and clear market relevance.