Horizon Europe Cluster 4 2026-2027

We have sorted the calls for projects from Horizon Europe Cluster 4 2026-2027 according to the impact that microfluidics can have on the calls for projects and related topics. We are sharing our analysis in case it can help you with project funding efforts. And, of course, if our expertise can be of use to you, we would be delighted to discuss it further.

How to read the stars in terms of the % of microfluidic technologies' relevance for the call:

By microfluidic relevance, we mean the relevance of using microfluidic technologies for the topic cited. But also, to a lesser extent, what a microfluidic laboratory or SME could contribute to the topic (mainly for calls with low relevance to microfluidic technologies).

Relevance (%)	90-100	80-89	70-79	60-69	50-59	40-49	30-39	20-29	10-19	0-9
Relevance (*)	*****	****	***	**	*	–	– –	– – –	– – – –	– – – – –

Administrative dates per call (apply to all topics within each call):

- **HORIZON-CL4-2026-01-MATERIALS-PRODUCTION: Opening:** 6 Jan 2026; **Deadline:** 8 Apr 2026.
- **HORIZON-CL4-2026-01-DIGITAL-EMERGING-61, 51 & 53: Opening:** 6 Jan 2026; **Deadline:** 8 Apr 2026.
- **Other HORIZON-CL4-2026-01-DIGITAL-EMERGING calls: Opening:** 15 Jan 2026; **Deadline:** 15 Apr 2026.
- **HORIZON-CL4-2026-space: Opening:** 10 Mar 2026; **Deadline:** 03 Sep 2026.
- **HORIZON-CL4-2027-01-MATERIALS-PRODUCTION-Y7 & HORIZON-CL4-2027-01-DIGITAL-EMERGING-52: Opening:** 22 Sep 2026; **Deadline:** 08 Apr 2027.
- **HORIZON-CL4-2027-01-MATERIALS-PRODUCTION, HORIZON-CL4-2027-01-DIGITAL-EMERGING-62&63: Opening:** 22 Sep 2026; **Deadline:** 02 Feb 2027.
- **HORIZON-CL4-2027-04-DATA, DIGITAL-EMERGING & HUMAN: Opening:** 17 Nov 2026; **Deadline:** 18 Mar 2027.
- **HORIZON-CL4-2027-space: Opening:** 09 Mar 2026; **Deadline:** 09 Sep 2026.

Quick shortlist (highest Microfluidics fit to prioritize)

1. **DIGITAL-EMERGING-62 (Scientific Laboratory Automation)** - 95 %
2. **MATERIALS-PRODUCTION-01 (IAM-enabled sensing)** - 92 %
3. **MATERIALS-PRODUCTION-23-two-stage (AI & digital discovery)** - 90 %
4. **MATERIALS-PRODUCTION-05/-06 (Circular advanced materials, 2026/2027)** - 88 %
5. **MATERIALS-PRODUCTION-01/-02 (Advanced manufacturing, 2026/2027)** - 85-84 %
6. **DATA-06 (Efficient & compliant access to/use of data)** - 78 %
7. **DIGITAL-EMERGING-04 (Advanced integrated photonics)** - 77 %
8. **DIGITAL-EMERGING-51 (AI in factories)** - 70 %

******* HORIZON-CL4-2027-01-DIGITAL-EMERGING-62 - SCIENTIFIC LABORATORY AUTOMATION (RAISE PILOT)**

- **Type of action:** RIA
- **Budget (topic, M€):** 30.00
- **Expected EU contribution/project (M€):** ~10.00
- **Estimated number of projects:** 3
- **Scientific summary:** Builds core capabilities for automated, data-driven experimentation across sciences, linking AI, robotics, and instrument control to accelerate discovery under the RAISE umbrella. Emphasis on robust workflows, interoperability, and safety.
- **Why microfluidics matters:**
    - Microfluidic "self-driving" experiments (droplet screening, gradient generators, organ-on-chip) are natural testbeds for closed-loop optimization.
    - Microfluidics can contribute modular chip-to-robot interfaces, flow-control APIs, and calibration protocols enabling FAIR, reproducible workflows.
    - On-chip combinatorial synthesis/cell-culture shortens iteration cycles needed by RAISE.
    - Experience with polymer chip scaling helps demonstrate portability from benchtop to pilot lines.

******* HORIZON-CL4-2026-05-MATERIALS-PRODUCTION-01 - NEW OR ENHANCED IAM-ENABLED SENSING FUNCTIONALITY**

- **Type of action:** RIA
- **Budget:** 24.00 M€ ; **Expected/project:** ~8.00 M€
- **Estimated number of projects:** 3
- **Scientific summary:** Develop innovative advanced-materials (IAM)-based sensing functionalities and demonstrate them in application-relevant environments.
- **Microfluidics fit:**
    - Opto-/electro-chemical sensing embedded in chips for bio/chem analysis; integration paths for IAM coatings, membranes, and nanostructures.
    - Microfluidics can lead demonstrators (e.g., multiplex lab-on-chip for contaminants, cell secretome, bioprocess monitoring).
    - Provide scalable polymer microfabrication and packaging for sensor arrays; define in-flow calibration methods and drift compensation.

******* HORIZON-CL4-2026-01-MATERIALS-PRODUCTION-23-TWO-STAGE - ACCELERATING THE DISCOVERY OF CHEMICALS AND ADVANCED MATERIALS THROUGH AI AND DIGITALISATION**

- **Type of action:** IA (two-stage under blind-evaluation pilot)
- **Budget:** 60.00 M€ ; **Expected/project:** 20.00 M€
- **Estimated number of projects:** 3
- **Scientific summary:** Digital workflows (AI, self-driving labs, FAIR/Materials Commons) to speed design-make-test-learn cycles, risk assessment and SSbD uptake; projects must include demonstrators.
- **Microfluidics fit:**
    - Microfluidics can supply high-throughput droplet/platforms and continuous-flow microreactors feeding ML loops.
    - On-chip toxicity & SSbD screening accelerates risk assessment; integrated data capture simplifies FAIR compliance.
    - Provide adapters to Materials Commons and DIGIPASS-compatible tooling from chip instrumentation.

****** HORIZON-CL4-2026-01-MATERIALS-PRODUCTION-05 - CIRCULAR ADVANCED MATERIALS: FACILITATING THE TRANSITION FROM DESIGN TO MARKETS**

- **Type of action:** RIA
- **Call:** INDUSTRY (HORIZON-CL4-2026-01)
- **Budget:** 40.00 M€ ; **Expected/project:** 5.00-6.50 M€
- **Estimated number of projects:** 7
- **Scientific summary:** Design-for-circularity (recyclable polymers/composites, magnets), scale-up to manufacturing, digital/FAIR tools, and SSbD across value chains including **medical devices**. Portfolio ensures coverage across energy, mobility, and medical.
- **Microfluidics fit:**
    - Polymer formulation and processing routes for recyclable microfluidic cartridges; solvent-free bonding, disassembly and material recovery.
    - Life-cycle testing rigs (leachables/extractables) and design rules for chip reuse/refurbishment.
    - Microfluidics can bridge materials ↔ manufacturing ↔ device integration for medical diagnostics.

****** HORIZON-CL4-2027-01-MATERIALS-PRODUCTION-06 - CIRCULAR ADVANCED MATERIALS: FACILITATING THE TRANSITION FROM DESIGN TO MARKETS**

- **Type of action:** RIA
- **Budget:** 40.00 M€ ; **Expected/project:** 5.00-6.50 M€
- **Estimated number of projects:** 7
- **Scientific summary & Microfluidics fit:** Same thrust as 2026 sister topic with renewed portfolio; strong opening for recyclable polymer microfluidic consumables, circular business models, and digital product passports for chips.

****** HORIZON-CL4-2026-01-MATERIALS-PRODUCTION-01 - ADVANCED MANUFACTURING FOR KEY PRODUCTS (INCLUDING USE OF ADVANCED OR SECONDARY RAW MATERIALS)**

- **Type of action:** IA
- **Budget:** 40.00 M€ ; **Expected/project:** 5.00-7.00 M€
- **Estimated number of projects:** 6
- **Scientific summary:** European manufacturing excellence for key components (e.g., additive/hybrid manufacturing, polymer composite manufacturing, advanced surface structuring, in-line testing), with circularity and reduced CRM reliance. Automotive is guaranteed in the portfolio; **batteries excluded**.
- **Microfluidics fit:**
    - Scale polymer chip manufacturing (roll-to-roll embossing, high-throughput laser structuring, hybrid additive-subtractive) and in-line metrology.
    - Substitute CRM-heavy parts with engineered polymers; integrate recycled feedstocks into chip bodies/fixtures.

****** HORIZON-CL4-2027-01-MATERIALS-PRODUCTION-02 - ADVANCED MANUFACTURING FOR KEY PRODUCTS (INCLUDING USE OF ADVANCED OR SECONDARY RAW MATERIALS)**

- **Type of action:** IA
- **Budget:** 40.00 M€ ; **Expected/project:** 5.00-7.00 M€
- **Estimated number of projects:** 6
- **Scientific summary & Microfluidics fit:** Continuation opportunity for manufacturing pilots/lines of **microfluidic devices**, including secondary raw materials and digital QA.

****** HORIZON-CL4-2026-04-DIGITAL-EMERGING-01 - PILOT OF THE "SCIENCE FOR AI" PILLAR OF RAISE**

- **Type of action:** RIA
- **Budget:** 17.00 M€ ; **Expected/project:** ~17.00 M€
- **Estimated number of projects:** 1
- **Focus:** EU pilot to apply AI to science at scale; strong emphasis on reproducible pipelines and compute/data integration.
- **Why Microfluidics:** Microfluidic self-driving experimentation is an ideal "AI for Science" demonstrator (chemistry, materials, cell systems)

***** HORIZON-CL4-2026-04-DATA-06 - EFFICIENT AND COMPLIANT ACCESS TO AND USE OF DATA (AI, DATA & ROBOTICS PARTNERSHIP)**

- **Type of action:** IA
- **Budget:** 50.00 M€ ; **Expected/project:** 10.00-25.00 M€
- **Estimated number of projects:** 3
- **Focus:** Trusted data sharing/processing, governance, and compliance tooling across sectors (under ADR/ADRA).
- **Microfluidics value:** Secure sharing of lab/clinical chip datasets

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***** HORIZON-CL4-2026-05-DIGITAL-EMERGING-04 - ADVANCED INTEGRATED PHOTONIC DEVICES FOR EXTENDED FEATURES AND ULTRA-LOW POWER**

- **Type of action:** RIA
- **Budget:** 25.00 M€ ; **Expected/project:** 3.00-5.00 M€
- **Estimated number of projects:** 6
- **Focus:** Novel integrated photonics with extended functionality/efficiency.
- **Microfluidics link:** Optofluidic sensing and on-chip spectroscopy; Microfluidics contributes to fluidic-photonics co-design and packaging for bio-chemical readouts.

***** HORIZON-CL4-2027-04-DIGITAL-EMERGING-05 - AI-DRIVEN ROBOTICS FOR INDUSTRY: ENABLING SYSTEM INTEGRATION & ADOPTION**

- **Type of action:** IA
- **Budget:** 18.00 M€ ; **Expected/project:** ~9.00 M€
- **Estimated number of projects:** 2
- **Focus:** Integration/validation of AI-robotic solutions in real industry lines.
- **Microfluidics:** Automating cartridge assembly, leak-test, optical alignment; retrofit cells for plastic micro-parts handling.

***** HORIZON-CL4-2026-01-MATERIALS-PRODUCTION-21 - DEVELOPMENT OF SAFE AND SUSTAINABLE ALTERNATIVES TO SUBSTANCES OF CONCERN**

- **Type of action:** IA
- **Budget:** 40.00 M€ ; **Expected/project:** 6.00-7.50 M€
- **Estimated number of projects:** 6
- **Focus:** SSbD alternatives to SoCs in energy, mobility, construction, electronics, and **health/medical devices**; full innovation cycle incl. manufacturing integration.
- **Microfluidics:** Low-SoC polymer chips (e.g., PFAS-free surfactants, safer plasticisers), cleanroom-light processes, and biocompatibility dossiers for medical devices.

***** HORIZON-CL4-2027-01-MATERIALS-PRODUCTION-22 - NEW ADVANCED MATERIALS & PRODUCTION PROCESSES – REDUCING DEPENDENCIES ON CRITICAL & STRATEGIC RAW MATERIALS**

- **Type of action:** IA
- **Budget:** 40.00 M€ ; **Expected/project:** 6.00-7.50 M€
- **Estimated number of projects:** 6
- **Focus:** Substitution/reduction of CRMs through new materials and process innovations; co-development of materials+process, SSbD throughout.
- **Microfluidics:** CRM-light valves/connectors, magnet-free actuation strategies, recyclable composites.

***** HORIZON-CL4-2027-01-MATERIALS-PRODUCTION-03 - FACTORY PROCESSES & AUTOMATION FOR DE- AND RE-MANUFACTURING**

- **Type of action:** RIA
- **Budget:** 40.00 M€ ; **Expected/project:** 5.00-6.50 M€
- **Estimated number of projects:** 6
- **Focus:** Inspection, AI-assisted disassembly, model-based systems/digital twins, on-site repair for high-value components.
- **Microfluidics:** End-of-life strategies for microfluidic devices: sorting/cleaning of polymer stacks, gasket recovery, re-machining, remanufacturing guidelines.

***** HORIZON-CL4-2026-01-DIGITAL-EMERGING-51 - AI-IMPROVED ADVANCED MANUFACTURING & PRODUCTION PROCESSES IN FACTORIES**

- **Type of action:** RIA
- **Budget:** 30.00 M€ ; **Expected/project:** 4.00-6.00 M€
- **Estimated number of projects:** 5
- **Focus:** ADRA/Made-in-Europe topics on AI for robust, efficient factory operations.
- **Microfluidics:** Vision+AI for micro-assembly/QC, predictive maintenance on pumps/valves, yield optimisation in chip fabrication lines.

**** HORIZON-CL4-2026-01-MATERIALS-PRODUCTION-31 - EFFICIENT CAPTURE / PURIFICATION / UTILISATION OF CO_2 FOR THE PRODUCTION OF COMPETITIVE PRODUCTS**

- **Type of action:** RIA
- **Budget:** 55.00 M€ ; **Expected/project:** 5.00-7.00 M€
- **Estimated number of projects:** 10
- **Focus:** Smart integration of CO_2 capture-purification-conversion with reduced energy/capex; lifecycle economics; methanol/fuels **excluded**.
- **Microfluidics angle:** Intensified microreactors for CO_2 conversion routes (e.g., catalysts screening, gas-liquid mass transfer), inline analytics, and thermal management.

**** HORIZON-CL4-2027-01-MATERIALS-PRODUCTION-32 - EFFICIENT ENERGY INPUT FROM RENEWABLES & ENERGY MANAGEMENT IN THE PROCESS INDUSTRIES**

- **Type of action: RIA**
- **Budget:** 70.00 M€ ; **Expected/project:** 6.00-8.00 M€
- **Estimated number of projects:** 9
- **Focus:** Electrification/hybrid heat, high-T storage, energy fluctuation management, and advanced materials for heat capture/management; ≥20 % GHG reduction.
- **Microfluidics role:** Thermal management materials/testing in micro-process intensification units; sensors for heat/flow in distributed pilots.

****HORIZON-CL4-2026-01-DIGITAL-EMERGING-53 - INNOVATIVE AI METHODS & TECHNOLOGIES FOR THE PROCESS INDUSTRIES**

- **Action:** RIA • **Budget:** 15.00 M€ • **Expected/project:** 4.00-6.00 M€
- **Estimated number of projects:** 5
- **Focus:** AI for efficiency/quality in process industries.
- **Microfluidics angle:** Micro-process intensification data and soft-sensors.

**** HORIZON-CL4-2027-05-DIGITAL-EMERGING-02 - AI-DRIVEN MANUFACTURING LINE DESIGN & OPTIMIZATION**

- **Action:** RIA • **Budget:** 15.00 M€ • **Expected/project:** ~7.50 M€
- **Estimated number of projects:** 2
- Digital twins & optimisation transferrable to microfluidic lines.

**** HORIZON-CL4-2026-04-DATA-01 - DEMAND-SIDE 3C (TELCO-EDGE-CLOUD) PILOT DEMONSTRATORS**

- **Type of action:** IA
- **Budget:** 38.00 M€ ; **Expected/project:** ~19.00 M€
- **Estimated number of projects funded:** 2
- **Focus:** Converged edge-cloud pilots.
- **Microfluidics value:** Low-latency control of distributed chip fleets and edge-analytics for screening rigs.

*** HORIZON-CL4-2027-04-DATA-03 - NEW APPROACHES FOR DECENTRALISED, FEDERATED & SUSTAINABLE AI DATA PROCESSING**

- **Type of action:** RIA
- **Budget:** 35.00 M€ ; **Expected/project:** ~17.50 M€
- **Estimated number of projects:** 2
- **Focus:** Federated AI/data processing with lower energy overhead.
- **Microfluidics:** Federated learning on proprietary bio/chem datasets from chips without raw-data pooling.

***HORIZON-CL4-2026-05-DIGITAL-EMERGING-03 - NEXT-GEN AGILE & INTELLIGENT ROBOTICS PLATFORMS (INDUSTRIAL & SERVICE)**

- **Type of action:** RIA
- **Budget:** 25.00 M€ ; **Expected/project:** 12.00-13.00 M€
- **Estimated number of projects: 2**
- **Focus:** Foundational platforms for next-gen robotics (perception, dexterity, trustworthy autonomy).
- **Microfluidics angle:** Micro-assembly & precision handling of chips/soft-litho parts; automated pipetting/connection for organ-on-chip testbeds.

*** HORIZON-CL4-2026-04-DATA-05 - ENERGY EFFICIENCY & SUSTAINABILITY OF AI DATA PROCESSING IN DATA CENTRES**

- **Type of action:** IA
- **Budget:** 39.00 M€ ; **Expected/project:** ~13.00 M€
- **Estimated number of projects:** 3
- **Focus:** Greener AI compute.
- **Microfluidics:** Indirect

*** HORIZON-CL4-2026-04-DIGITAL-EMERGING-08 - ROBOTICS FOR MANUFACTURING: ADVANCING CORE SKILLS THROUGH TECHNICAL CHALLENGES**

- **Action:** RIA • **Budget:** 18.00 M€ • **Expected/project:** ~18.00 M€
- **Estimated number of projects:** 1
- Short-term fit via challenge tasks relevant to precision micro-assembly.

Remaining topics (with Microfluidics relevance < 40 %)

– HORIZON-CL4-2026-01-MATERIALS-PRODUCTION-04 - OPTIMISE THE USAGE OF RESOURCES IN A CIRCULAR ECONOMY

- **Action:** RIA • **Budget:** 70.00 M€ • **Expected/project:** 5.00-7.00 M€
- **Estimated number of projects:** 10
- Focus on recycling/upcycling, contaminants, water/energy cuts across process chains.
- **Microfluidics:** Waste-stream monitoring on-chip; recyclability evidence for microfluidic plastics.

– HORIZON-CL4-2027-01-MATERIALS-PRODUCTION-08 - ADVANCED PROCESSING/MANUFACTURING & BUSINESS MODELS FOR COMPETITIVE TEXTILE CIRCULARITY

- **Action:** IA • **Budget:** 16.00 M€ • **Expected/project:** 4.00–6.00 M€
- **Estimated number of projects:** 3
- Niche relevance via functional finishing/sensing textiles with microfluidic coatings.

– HORIZON-CL4-2027-04-DIGITAL-EMERGING-04 - CHALLENGE-DRIVEN AI INNOVATION BOOSTER IN APPLY-AI PRIORITISED SECTORS

- **Action:** RIA • **Budget:** 56.00 M€ • **Expected/project:** ~14.00 M€ • **Estimated number of projects:** 4
- Possible verticals where microfluidics can contribute demonstrators.

– HORIZON-CL4-2026-01-MATERIALS-PRODUCTION-24 - COOPERATION ON INNOVATIVE ADVANCED MATERIALS WITH JAPAN (CSA)

- **Action:** CSA • **Budget:** 0.80 M€
- **Estimated number of projects:** 1
- Mobility for EU–Japan advanced-materials cooperation; potential for Microfluidics exchange on polymer chips/sensors.

– HORIZON-CL4-2027-04-HUMAN-01 - ADVANCED & INNOVATIVE HARDWARE COMPONENTS FOR VIRTUAL WORLDS (PARTNERSHIP)

- **Action:** RIA • **Budget:** 42.00 M€ • **Expected/project:** 5.00-6.00 M€
- **Estimated number of projects:** 8
- Indirect link via simulation/visualisation of microflows and digital twins.

– HORIZON-CL4-2027-05-DIGITAL-EMERGING-01 - FOSTERING AI ADOPTION: POWERFUL AI SOLUTIONS THAT ARE SAFE & COMPUTATIONALLY EFFICIENT

- **Action:** RIA • **Budget:** 30.00 M€
- **Estimated number of projects:** 1
- Large single action; Microfluidics can be a vertical pilot provider, but AI kernel work is outside the core.

– – HORIZON-CL4-2026-04-HUMAN-02 - WEB 4.0 ARCHITECTURAL FRAMEWORK & OPEN INTERNET STACK APPLICATIONS FOR VIRTUAL WORLDS

- **Action:** RIA • **Budget:** 18.00 M€ • **Expected/project:** 3.00-9.00 M€
- **Estimated number of projects:** 3
- Low direct relevance.

– – HORIZON-CL4-2026-04-HUMAN-01 - DEVELOPING & DEMONSTRATING CORE TECHNOLOGIES FOR VIRTUAL WORLDS & WEB 4.0

- **Action:** IA • **Budget:** 30.00 M€ • **Expected/project:** 4.00-5.00 M€
- **Estimated number of projects:** 7
- Low direct relevance.

– – HORIZON-CL4-2027-04-DIGITAL-EMERGING-06 - INTERNATIONAL COOPERATION IN AI

- **Action:** RIA • **Budget:** 3.00 M€ • **Expected/project:** ~3.00 M€ • **Estimated number of projects:** 1
- Networking-heavy; limited direct fit.

– – – HORIZON-CL4-2026-04-DATA-02 - OPEN INTERNET STACK SOVEREIGN SOLUTIONS

- **Action:** RIA • **Budget:** 22.00 M€ • **Expected/project:** 7.00-11.00 M€
- **Estimated number of projects:** 2
- Minimal alignment (backend for instrument connectivity).

– – – HORIZON-CL4-2026-04-DATA-03 - OPEN INTERNET STACK SUPPORT FOR SCALE (CSA)

- **Action:** CSA • **Budget:** 4.00 M€ • **Expected/project:** ~4.00 M€ • **Estimated number of projects:** 1
- Minimal direct link.

– – – HORIZON-CL4-2026-04-DIGITAL-EMERGING-09 - EARLY WARNING & PREPAREDNESS

- **Action:** IA • **Budget:** 6.00 M€ • **Expected/project:** ~6.00 M€ • **Estimated number of projects:** 1
- Possible role for rapid on-chip diagnostics in preparedness networks.

– – – HORIZON-CL4-2026-04-DIGITAL-EMERGING-10 - EMERGENCY RESPONSE & RESOURCES ALLOCATION

- **Action:** IA • **Budget:** 5.00 M€ • **Expected/project:** ~5.00 M€ • **Estimated number of projects:** 1
- Indirect link via field diagnostics logistics.

– – – HORIZON-CL4-2026-04-DIGITAL-EMERGING-11 - QUANTUM SENSORS FOR INERTIAL NAVIGATION (CSA)

- **Action:** CSA • **Budget:** 30.00 M€ • **Expected/project:** 0.50-5.00 M€
- Microfabrication know-how could be tangentially relevant; navigation focus is outside the microfluidics core.

– – – – HORIZON-CL4-2026-04-DIGITAL-EMERGING-12 - STANDARDS FOR QUANTUM TECHNOLOGIES (CSA)

- **Action:** CSA • **Budget:** 1.00 M€ • **Estimated number of projects:** 1
- Standards activity; negligible direct fit.

– – – – HORIZON-CL4-2026-04-DIGITAL-EMERGING-14/-15/-16/-17 - PHOTONICS STRATEGY; SEMICONDUCTOR-INTENSIVE REGIONS; HORIZON SCANNING; FOSTERING 2D MATERIALS (CSAs)

- **Action:** CSAs
- **Budgets:** 3.00 M€ / 1.00 M€ / 4.00 M€ / 1.00 M€ respectively; each **Estimated number of projects:** 1; **Avg/project:** respective totals.

– – – – HORIZON-CL4-2026-DIGITAL-EMERGING-18 - LARGE-SCALE PHOTONIC QUANTUM COMPUTING PLATFORM TECHNOLOGIES

- **Action:** RIA • **Budget:** 10.00 M€ • **Estimated number of projects:** 1
- Far from Microfluidics focus.

Materials-production (industrial value-chains; generally low direct Microfluidics fit)

Call	2026-01-14	2026-01-15	2027-01-16	2026-01-11	2026-01-13	2026-01-12	2027-01-17
Call title	Improving availability of secondary raw materials through recycling	Technologies for innovative processing & refining of raw materials	Technologies for innovative processing of raw materials	Innovative technologies & tools for exploration and data modelling of raw materials	Monitoring of secondary raw materials	Technologies for innovative extraction of critical raw materials	Expert network on critical raw materials
Action type	IA	RIA	IA	RIA	CSA	RIA	CSA
Budget (M€)	30.00	25.00	52.00	20.00	5	20	3
# projects	4	5	4	3	2	3	1
Relevance	– –	– –	– –	– –	– –	– –	– –

Clean Industrial Deal (cross-cutting)

– – HORIZON-CL4-2026-01-CID-X1 - R&I IN SUPPORT OF THE CLEAN INDUSTRIAL DEAL: DECARBONISATION OF ENERGY-INTENSIVE INDUSTRIES
Action: IA • **Budget:** 125.00 M€ • **#:** 5
Focus: CCU/CCS, clean energy usage, circularity & resource efficiency at TRL7–8 with 60 % funding (100 % for non-profits).

– – HORIZON-CL4-2027-01-CID-X2 - R&I IN SUPPORT OF THE CLEAN INDUSTRIAL DEAL: DECARBONISATION OF ENERGY-INTENSIVE INDUSTRIES
Action: IA • **Budget:** 125.00 M€ • **#:**5

Materials-production: Knowledge valorisation & Technology Infrastructures

Call	2026-01-Y4	2026-01-Y5	2027-01-Y7	2027-01-Y2	2026-01-Y1	2026-01-Y6
Call title	Integration of technology infrastructure capacities	Pilot access programme to technology infrastructures	Pilot access programme to TIs for European startups/scaleups	Unlocking the potential of academic intellectual assets	Enhancing industry academia knowledge exchange in SSH	Support to the coordination framework for technology infrastructure
Action type	CSA	CSA	CSA	CSA	CSA	CSA
Budget (M€)	6	5.00	5.00	2.00	2	1
# projects	3	2	2	2	2	1
Relevance	*	*	*	*	–	–

AI in Science Fellowships & Workforce

– HORIZON-CL4-2026-01-DIGITAL-EMERGING-61 - CO-FUNDED AI IN SCIENCE FELLOWSHIPS (RAISE PILOT) (COFUND)
Budget: 30.00 M€ • **Expected/project:** ~10.00 M€ • **#:** 3

– HORIZON-CL4-2027-01-DIGITAL-EMERGING-52 - NEW APPROACHES FOR HUMAN/AI COLLABORATION FOR THE WORKFORCE OF THE FUTURE
Action: RIA • **Budget:** 30.00 M€ • **Expected/project:** 4.00-6.00 M€ • **#:** 5

SPACE - generally low direct Microfluidics fit, but potential niche (microgravity chips, ruggedised components)

Call	2026-03-31	2026-03-32	2027-03-33/34	2026-03-61	2026/2027-03-81/82/83/84	2026-03-11	2027-03-12
Call title	Digital enablers & building blocks for EO & satcom for space solutions	Preparing demonstration missions for EO & satcom for space solutions	Collaborative EO & satcom	Unlocking the potential of academic intellectual assets	Space critical EEE components / equipment for EU non dependence	Reinforcing EU autonomous access to space through EU based spaceports	Digital solutions for autonomy for space transportation systems
Action type	RIA	IA	RIA/ IA	RIA	CSA	IA	IA
Budget (M€)	12	26.00	4.00	4.00	10	38	5
# projects	3	4	2-4	3	6	2	2
Relevance	– – –	– – –	– – –	– – – –	– – – –	– – – –	– – – –

Virtual Worlds (remaining)

– – HORIZON-CL4-2027-04-HUMAN-02 - CREATE A THRIVING & COMPETITIVE VIRTUAL WORLDS & WEB 4.0 ECOSYSTEM (CSA)
Budget: 3.00 M€ • **#:** 1

– – HORIZON-CL4-2027-04-HUMAN-07 - FACILITATE THE ENGAGEMENT OF EUROPEAN STAKEHOLDERS IN INTERNATIONAL DIGITAL STANDARDISATION (CSA)
Budget: 7.00 M€ • **#:** 1