

Informationsmöte om utlysningar inom kvantteknik i EU- partnerskapsprogrammet Chips JU

2026-04-24 - webinar

VINNOVA



Agenda

- Chips JU
- Svenska Chips JU-delegation
- QSIP
- Chips JU Arbetsprogram 2026
 - Chips for Europe Initiative
- Utlysningar inom kvantteknik
- Tidplan och ansökningsprocess
- Övriga frågor

Svenska Chips JU-delegation

- Adela Saavedra Granholm, main delegate PAB, PAB Vice-chair, alternate GB
- Lars Gustafsson, main delegate GB, alternate PAB
- Sverker Brundin, alternate PAB & GB
- Jessica Svennebring, alternate PAB & GB
- Jeannette Spühler, NCP Horizon Europe, cluster 4



PAB: Public Authorities Board.

GB: Governing Board.

NCP: National contact point

Chips Joint Undertaking

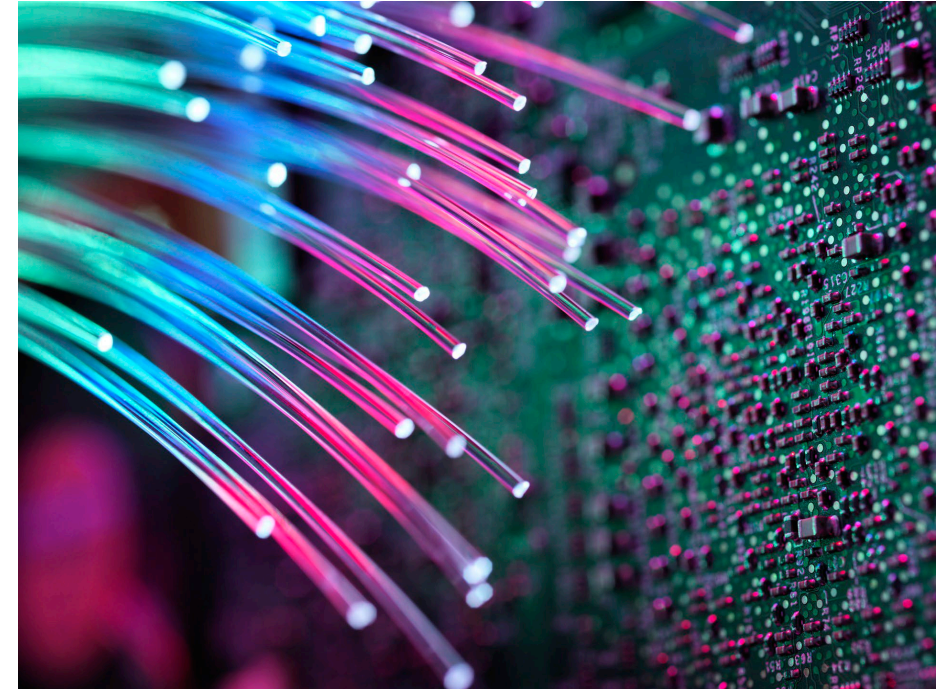
European Partnership Programme – Electronics Components and Systems (ECS)

General Objectives: broad actions in electronics

- Reinforce EU strategic autonomy in electronic components and systems
- Establish EU scientific excellence and innovation leadership
- Ensure that components and systems technologies address Europe's societal and environmental challenges

Actions in Chips for Europe initiative

- Pilot lines
- Design platform
- Competence centers
- Quantum chips technology



Chips JU



Operational EU budget (Horizon Europe & Digital Europe Programme):
EUR 4 175 million
Total budget: ~**EUR 11 000 million**

Chips for Europe Initiative

Pilot lines

Design Platform

Competence Centres

Quantum chips

Skills

Electronics Components and Systems

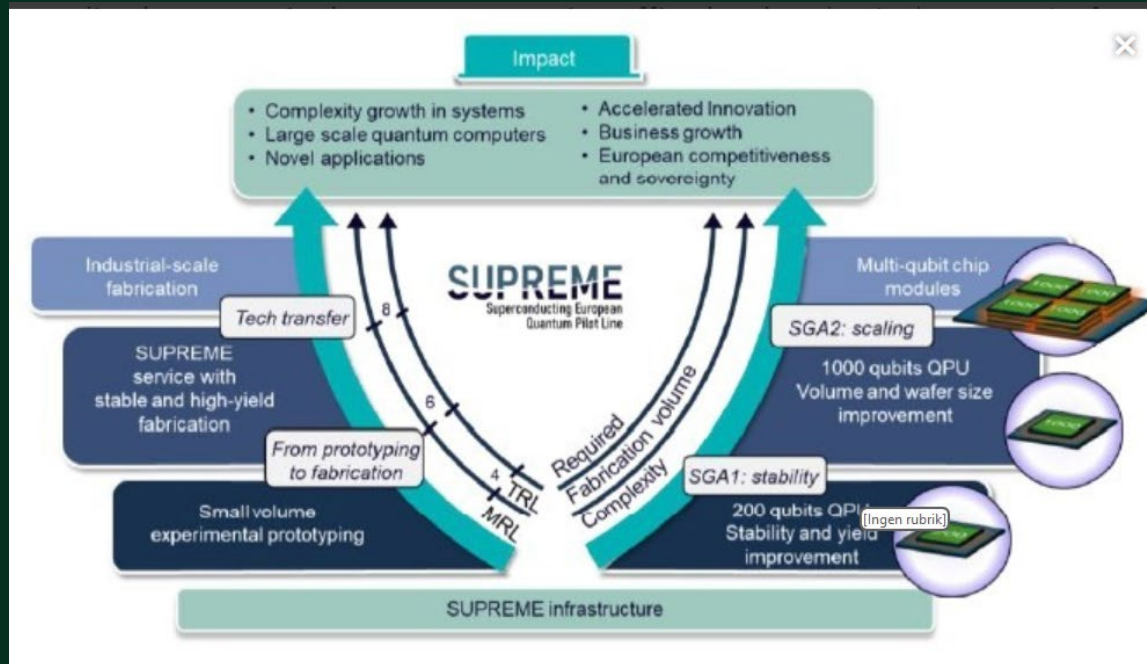
Research and innovation projects (RIA, IA, CSA)

Research and innovation cooperation projects

Quantum Pilot Lines – Chips JU

Under uppbyggnad, olika mognadsgrad

- SUPREME 1
- P4Q
- SPINS
- DIREQT
- Q-PLANET
- CHAMP-ION

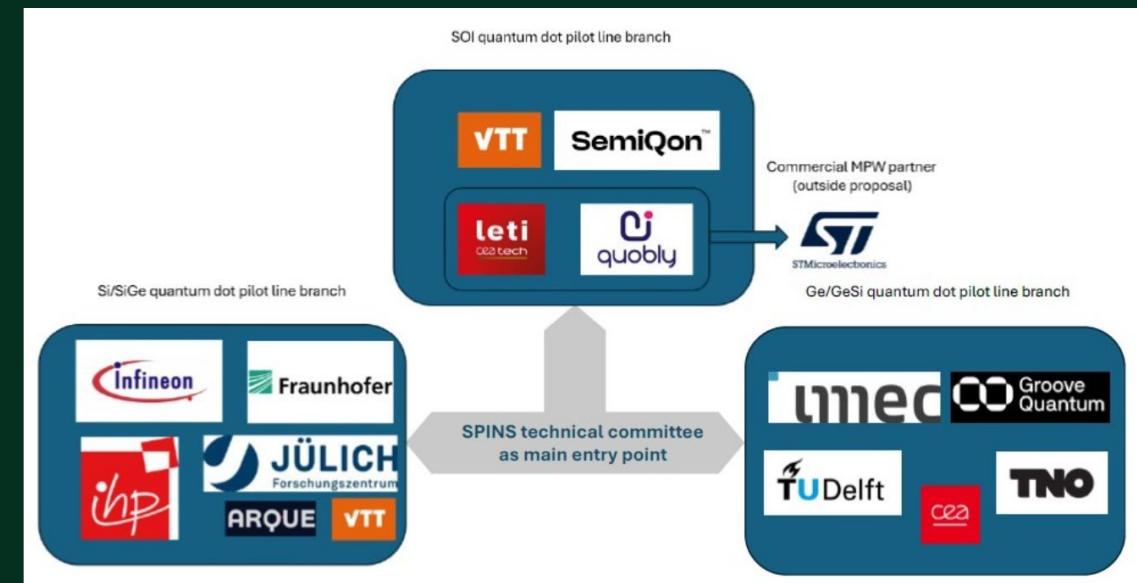


05/19/2025 by SAL Editorial Team

GREEN LIGHT FOR EUROPE'S FIRST ION-TRAP-CHIP PILOT LINE



The Framework Partnership Agreement for Europe's first ion-trap-chip pilot line has been positively evaluated by Chips Joint Undertaking (Chips JU) as part of the EU Chips Act initiative. This is a significant milestone for the stabilization and strengthening of quantum technology fabrication, bolstering Europe's technological sovereignty.



Arbetsprogram 2026

VINNOVA



Work Programme 2026

- Multiannual Work Programme 2023-2027
- Multiannual Work Programme 2023-2027 GENERAL ANNEXES
- Appendix 7 2026 – Electronic Components and Systems (ECS)
- Appendix 8 2026 – Chips for Europe Initiative (C4EI)

[Multiannual Work Programme 2023-2027 - Chips Ju](#)

WP2023-2027 Download ↓

WP2023-2027 General Annexes Download ↓

Appendix 1 2023 - Electronic Components and Systems (ECS) Download ↓

Appendix 2 2023 - Chips for Europe initiative (C4EI) Download ↓

Appendix 3 2024 - Electronic Components and Systems (ECS) Download ↓

Appendix 4 2024 - Chips for Europe initiative (C4EI) Download ↓

Appendix 5 2025 - Electronic Components and Systems (ECS) Download ↓

Appendix 6 2025 - Chips for Europe initiative (C4EI) Download ↓

Appendix 7 2026 - Electronic Components and Systems (ECS) Download ↓

Appendix 8 2026 - Chips for Europe initiative (C4EI) Download ↓

Arbetsprogram 2026 – C4EI (Chips for Europe Initiative)

- Total EC-budget: 215 miljoner €
- Quantum RIA calls: öppnar 7 juli 2026, kräver nationell finansiering.
- International collaboration EU-Japan: öppnar 7 juli 2026, kräver nationell finansiering.
- 3 st. utlysningar om utveckling av nya utbildningar (universitet och högskolenivå) inom chips-design och andra områden inom halvledarteknik.
- Utvecklingen av nya utbildningar på Master- och PhD-nivå finansieras inte av Vinnova men dessa utlysningar ger intressenterna möjligheten att utveckla dessa strategiska kurser med EU-medfinansiering.
- AI chips and systems: Pre-commercial procurement (PCP),

HE ACTIONS		
Call Activities		
Topic	Description	Indicative EU budget M€
HORIZON-JU-CHIPS-2026-QUANTUM-1-RIA	Quantum Chips Design: Driving Europe's Quantum Design Ecosystem and Enabling Quantum Design Tools Innovation	30
HORIZON-JU-CHIPS-2026-QUANTUM-2-RIA	Quantum Chips: Enabling Technologies	20
Other Activities		
DEP ACTIONS		
Call Activities		
Topic	Description	Indicative EU budget M€
DIGITAL-JU-Chips-2026-CSA-DET	Call for Design Enablement Teams	5
DIGITAL-Chips-2026-SG-SKILLS-HoE	Skills Hubs of Excellence	20
DIGITAL-Chips-2026-SG-SKILLS-PF	Pilot Federation	10
DIGITAL-Chips-2026-CSA-SKILLS-SCD	Stimulation of Chip Design	15
DIGITAL-JU-Chips-2026-SG-JAPAN	International collaboration - Joint call EU and Japan on semiconductors	15
Other Activities		
DIGITAL-Chips-2026-GfP-AI-DP	AI chips and systems for EU compute infrastructure	100
TOTAL		215

Arbetsprogram 2026 – ECS (elektroniska komponenter och system)

- Total EU-budget: 199 miljoner €
- Vinnovas preliminära budget för Calls 2026 är 8,7 miljoner €
- 10 st ECS-utlysningar i WP 2026
- Vinnova prioriterar de breda IA- och RIA-utlysningar enligt den strategiska ECS-agenda (SRIA).
- Strategiska IA Focus Topics (FT) om kraftelektronik och fotonik samt RIA-utlysning om 6G prioriteras.
- Innovation actions (IA) och Research and Innovation Actions (RIA) kräver nationell medfinansiering.
- CSA finansieras enbart av EU-kommissionen genom Chips JU.

Action	Topic	EU indicative budget (M€)
HORIZON-JU-Chips-2026-1-IA	IA Global call according to SRIA 2026	40
HORIZON-JU-Chips-2026-FT1-IA	IA Resilience call reinforcing Europe's strength in power electronics	20
HORIZON-JU-Chips-2026-FT2-IA	IA Resilience call reinforcing Europe's strength in photonics	20
HORIZON-JU-Chips-2026-FT3-IA	IA Resilience call reinforcing Europe's strength in health	20
HORIZON-Chips-JU-2026-FT4-IA	AI-assisted Methods and Tools for Software-Defined Vehicle Engineering Automation	20
HORIZON-JU-Chips-2026-1-RIA	Global call according to SRIA 2026 (RIA)	50
HORIZON-JU-Chips-2026-2-RIA	RIA Resilience call reinforcing Europe's strength in 6G radio communication systems	20
HORIZON-JU-Chips-2026-3-RIA	Call with Digital Partnership and TTC countries	5
HORIZON-JU-Chips-2026-CSA	Supply chain resilience (CSA)	2
HORIZON-JU-Chips-2026-SDV-CSA	Coordination of the European software-defined vehicle platform	2
	Total	199

Prioriterade av Vinnova för nationell finansiering

An aerial photograph of a modern cable-stayed bridge spanning a large body of water. The bridge features a prominent central pylon with multiple stay cables. The surrounding landscape includes green hills, a small town, and a marina. A dark green semi-transparent overlay covers the entire image, with a large white triangle pointing downwards from the top center.

Utlysningar inom kvantteknik

Quantum Chips Design

- HORIZON-JU-CHIPS-2026-QUANTUM-1-RIA: Quantum Chips Design: Driving Europe's Quantum Design Ecosystem and Enabling Quantum Design Tools Innovation

This topic aims at fostering the emergence of a pan-European quantum design community around quantum chip design, simulation, and verification libraries and tools. It will support ecosystem-building and coordination, bridging across research organisations, Quantum Pilots, foundries, startups and SMEs, companies, and industrial design workflows.

- **Scope:** Building on a strong European expertise and added value, the action will foster a pan-European community around quantum chip design, building on and closely integrating with the European Design Platform under the Chips for Europe Initiative, in coordination with the Quantum Pilots, European foundries and relevant Design Enablement Teams of the microelectronics sector.
- **Expected outcomes:** A new quantum design facility under the Chips JU, providing cloud-access, fully integrated with the European cloud-based semiconductor Design Platform and connected with the Quantum Pilots under the Chips JU.
- EU-budget: 30 miljoner € SE-budget: 3 miljoner kr

Quantum Enabling Technologies

- HORIZON-JU-CHIPS-2026-QUANTUM-2-RIA: Quantum Chips Enabling Technologies

This topic aims at developing, integrating and pilot-line validating cross-platform enabling technologies that are essential to operate, scale and industrialise quantum systems, **without however funding production of quantum chips themselves.**

Enabling technologies include the electronics, cryogenics, packaging and interfacing subsystems that prepare, protect, control, interconnect and read-out core quantum devices across platforms (e.g. superconducting, semiconducting, photonic, ion-trap, neutral-atom, diamond).

- **Scope:** This topic focuses on enabling technologies that support, control, and read out quantum systems without funding the core quantum chips themselves.
- **Expected outcomes:** Platform-agnostic usability of enabling subsystems across ≥ 2 quantum platforms, with documented interfaces to foundries or pilot lines.
- EU-budget: 20 miljoner €
- SE-budget: 3 miljoner kr

Quantum Enabling Technologies

- HORIZON-JU-CHIPS-2026-QUANTUM-2-RIA: Quantum Chips Enabling Technologies

Common requirements:

- Respect the boundary condition that this topic **does not fund the manufacturing of quantum chips/QPUs**; enabling subsystems may progress up to pilot-line validation/MPW tape-out where relevant, in alignment with Chips JU pilot-line access.
- Clearly state interfaces (e.g. LoIs/MoUs) to at least one EU foundry/pilot line and provide a bench-plus-pilot-line/MPW validation plan.
- Provide quantitative metrics/targets (e.g. noise figure, dynamic range, cryo power, thermal load, channel count, footprint, reliability) demonstrating **miniaturisation, integration and manufacturability** progress.
- Deliver reference designs, design kits or integration notes enabling **reuse across platforms** and uptake by SMEs and pilot lines, with IPR and supply-chain plans ensuring EU access.
- Coordinate with the European Design Platform DETs to onboard relevant digital assets (PDKs, decks, models) to the platform.

Vinnovas nationella regler för Calls 2026

Deltagande organisation ska uppfylla följande krav vid inskickande av ansökan till Chips JU:

- Alla deltagande organisationer ska vara juridiska personer. Fysiska personer eller enskilda firmor kan inte delta. Utländska juridiska personer kan delta om de har filial eller driftställe i Sverige och kostnaderna uppstår hos filialen eller driftstället.
- Minst en projektpart ska vara företag.
- Organisationer som söker finansiering för lönekostnader måste vara registrerade som arbetsgivare hos Skatteverket.
- Företag ska ha minst två registrerade årsredovisningar hos Bolagsverket.
- Den senaste registrerade årsredovisningen ska ha nettoförsäljning eller eget kapital som motsvarar hälften av sökbart belopp hos Chips JU och Vinnova.
- Företag ska ha minst en miljon kronor i nettoomsättning enligt senaste årsredovisningen. I nettoomsättning räknas inte offentliga bidrag från exempelvis Vinnova eller EU.
- Företag ska ha minst tre heltidsanställda.

Vinnovas nationella regler för Calls 2026

Krav på det nationella konsortiets sammansättning

- Minst 50 procent av de totala stödberättigande projektkostnaderna i ett svenskt projektkonsortium som ansöker i Research and Innovation Actions (RIA)-utlysningar ska avse de stödberättigande projektkostnaderna hos deltagande svenska företag.
- Tillsammans med den fullständiga ansökan ska även alla svenska parter skicka in en gemensam så kallad National Part med en beskrivning av det svenska konsortiets bidrag till projektet. Mallen för National Part kommer att publiceras på Chips JU Calls 2026-websida i [vinnova.se](https://www.vinnova.se).

Viktiga datum

- **7 juli 2026 öppnar för ansökan** utlysningar inom kvantteknik - fullständig projektansökan (FPP).
- **Sista ansökningsdag** fullständig projektansökan (FPP) för utlysningar inom Chips for Europe Initiative:

23 september 2026

HORIZON-JU-CHIPS-2026-QUANTUM-1-RIA: Quantum Chips Design: Driving Europe's Quantum Design Ecosystem and Enabling Quantum Design Tools Innovation

HORIZON-JU-CHIPS-2026-QUANTUM-2-RIA: Quantum Chips Enabling Technologies

Tidplan



ECS collaboration tool

- Ett verktyg/nätverk för att hitta partners för Quantum topics i Chips JU

[ECS Collaboration Tool](#)

About the ECS Collaboration Tool

The ECS Collaboration Tool is a powerful networking platform that enables experts in Electronic Components and Systems to create project proposals, find partners, and access funding opportunities, all in one place.



Create a Project Idea

Start your project and invite collaborators.



Find Partners

Search for partners based on expertise.



Browse Ideas

Explore project ideas and join teams.



Message Board

Post messages to attract partners.

Frågor?



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Tack!



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