Meet the Dutch Delegation

Innovation Mission to United Kingdom Future of Compute

10 – 13 November 2025

Netherlands

Forewords

It is my pleasure to welcome you to the Future of Compute innovation mission to the UK, where experts from the Netherlands and the UK in the fields of AI, integrated photonics and neuromorphic computing come together to discuss scope for further collaboration in your fields.

Mr. Paul Huijts

On 6 February 2025, Dutch Prime Minister Dick Schoof met with UK Prime Minister Keir Starmer. They praised the long-standing and strong economic ties that the Netherlands and the UK have. Turning to technology and innovation, our Prime Ministers agreed on the importance of moving at pace to seize on the opportunities offered by new and emerging technologies, to pursue a new innovation partnership accelerating growth in key technologies.

I am pleased that this Future of Compute innovation mission will also see the signing of the UK-NL Innovation Partnership, announced in February. The themes of the partnership, namely AI/ future of compute, quantum and semiconductor technologies, cover to a large degree the topics of this mission. An overarching framework gives a new impuls to our existing collaborations, but also deepens our ties profoundly.

As we embark on this new NL-UK partnership, I invite you to seize the opportunities of this mission and to help drive progress across our shared priorities.

Mr. Paul Huijts
Ambassador of the Kingdom of the Netherlands

Frits Grotenhuis

Computing power increasingly shapes the contours of our digital future. From AI applications to embedded systems, the demand for performance continues to rise, while sustainability, energy efficiency and scalability have become essential conditions rather than optional goals. Against this backdrop, the Future of Compute innovation mission is highly relevant: it goes beyond any single technology, recognizing that the greatest advances will come from the interplay between AI, integrated photonics, and neuromorphic computing.

The Netherlands is well positioned to contribute. Our strengths lie in both fundamental and applied research, ranging from algorithms to materials, from hardware design to system architecture. Our universities, research institutes, startups, SMEs, and larger companies are part of an ecosystem where co-design, valorisation, and collaboration are second nature. National organisations like Topsector ICT, AIC4NL and PhotonDelta provide strong foundations for progress.

The United Kingdom is an ideal partner for this mission. Its ecosystems in AI, photonics, and neuromorphic computing rank among the world's best. With world-class universities, strong industrial networks, and significant public and private investments, the UK offers rich opportunities for collaboration, knowledge exchange, and joint innovation. This mission enables us to build bridges, to align research and industrial agendas, and to define a shared vision that reaches beyond individual disciplines.

On behalf of Topsector ICT, I am delighted that Future of Compute once again brings together public research institutions, companies, and policymakers. This mission booklet reflects both the journey we will take together to the UK and the ambition we share: to develop computing solutions that are powerful yet efficient, innovative yet applicable.

To all participants: thank you for your contributions, your ideas, and your willingness to explore and connect. Let us use this mission to seize opportunities, push technological frontiers, and shape the future of compute in the Netherlands, in the UK, and beyond.

Sincerely,
Frits Grotenhuis
Director Topsector ICT - Head of delegation

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Track AI

AI Coalition 4 NL (AIC4NL)

The AI Coalition for the Netherlands (AIC4NL) is leading the way in driving and implementing a responsible AI transition in the Netherlands.

Since January 1, 2025, we've combined the strengths of NL AIC (the largest AI community in the Netherlands) and AiNed (the largest Dutch AI program). Together, we form AICoalition4NL, working from a unified mission, strategy, and organization. In doing so, we build upon the successes achieved by the NL AIC approach since its establishment in 2019 and the AiNed program, which started in 2021.

We are committed to building a strong international AI position for the Netherlands. We want to achieve this by expanding our reach, addressing societal issues and shaping transformations using AI.

By combining these strengths, AIC4NL fulfills three key roles: thought leader, orchestrator, and program developer.

Willem Jonker
Chair of the board

Stefan Leijnen
Lead International

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https://aic4nl.nl/en/

Axelera AI

Axelera is building the world's best platform for AI inference.

Our industry-defining Metis AI chip – a complete hardware and software solution for AI inference at the edge – makes LLMs and computer vision applications affordable and accessible, and is used across a range of industries including defense, surveillance, retail. robotics and industrials. Our roadmap takes us into high-performance computing, with €62M funding from EuroHPC to develop our Titania product, a high-performance, energy efficient and scalable AI inference chiplet.

With over $200M in funding to date, Axelera AI is based in the AI Innovation Center of the High Tech Campus in Eindhoven. It has R&D offices in Belgium, Switzerland, Italy and the UK, with over 200 employees in 18 countries. We e a 20-person silicon engineering office in Bristol and key executives in the UK.

Louis Mather
VP Strategy

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https://axelera.ai/

CWI

Centrum Wiskunde & Informatica (CWI) is the national research institute for mathematics and computer science in the Netherlands. Based in the Amsterdam Science Park, CWI is part of the Institutes Organisation of NWO, NWO-I. Our institute has strong international links, and we enjoy a global reputation for our innovative research. By creating synergy between mathematics and computer science, CWI pursues fundamental and long-term innovation. Our strength is discovering and developing new ideas that benefit society and the economy, as well as other scientific areas.

Research in the Intelligent and Autonomous Systems group at CWI studies generic and fundamental mechanisms that enable the emergence of various degrees of organisation, intelligence and autonomy in complex socio-technical systems. More specifically, we study the application of distributed AI and multi-agent systems, in a variety of societal areas ranging from smart energy systems, complex logistic networks, financial markets and spread of disinformation in social networks.

Prof. Valentin Robu's expertise is especially in application of distributed AI to complex energy systems and smart energy grids. We work with all the relevant stakeholders in the energy system in the Netherlands (network operators, municipalities, private companies) to study how developments in AI can enable the energy transition in the Netherlands. Moreover, computing needs of fast developments in AI also need to be modelled and managed using AI and advanced optimisation techniques. An example includes the smart management of the energy consumption of large computing and data centres.

Valentin Robu
Senior Researcher/
Professor

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https://www.cwi.nl/en/

Donders Instituut, Radboud Universiteit

Radboud university is investing heavily in AI (via Radboud AI) and neuromorphic computing (via the Neurormorphic Computing Initiative). The department of machine learning and neural computing of the Donders Institute in particular has decades of expertise strongly rooted in machine learning.

We run a European ELLIS unit (excellence network on machine learning), coordinate the European University on Brain and Technology (NeurotechEU) and develop applications in healthcare, neurotechnology and high-tech industry.

Marcel van Gerven
Professor of Artificial Cognitive Systems

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https://www.ru.nl/en/departments/interdisciplinair/radboud-ai

Nebius Group

This is what Nebius builds: vertically integrated AI infrastructure that accelerates AI innovation globally and at scale. With large-scale GPU clusters deployed across Europe and the US, Nebius's full-stack cloud platform combines the scale, flexibility and reliability of a hyperscaler with the power and performance of a supercomputer.

We serve a fast-growing ecosystem of AI innovators of all sizes — from startups to research institutes to enterprises — across sectors including healthcare and life sciences, robotics, finance and entertainment, as well as national AI programs.

The Nebius team includes hundreds of engineers with deep expertise in building world-class tech infrastructure, as well as in-house AI R&D. Headquartered in Amsterdam and listed on Nasdaq (NBIS), Nebius has a global footprint, with hubs across Europe, North America and the Middle East.

Daan Snellink
Business Diplomacy EU

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https://nebius.com/about

OPT/NET

OPT/NET BV

OPT/NET BV sets a new benchmark for Huge Data processing with our MONITORED and OptOSS AI platforms.

We are helping Dutch society to enjoy reliable connectivity and digital services for tens of millions of residents.

The combined OptOSS AI® and MONITORED AI® platforms deliver outstanding end-user experiences via an intuitive, AI-driven interface that streamlines complex backend workflows pertinent to DIGITAL REALITY — managing remote sensing, multimodal streaming data, real-time sensor data acquisition, and geo-data fusion.

We amplify human analysts' productivity by over 1,000× by merging AI automation with human intelligence.

Built on rigorous 'rocket science' foundations (supported with "Space to Earth Technology Transfer" programme of ESA) and refined over a decade, our solution has more than five years of live deployments for production-grade service assurance with leading Dutch telecoms.

Our platforms continue gaining adoption with customers in the Netherlands, BENELUX, Europe and Internationally.

Taras Matselyukh
CEO/CTO

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SURF

SURF is the collaborative organisation for ICT in Dutch Education and Research. It provides specialised digital solutions and services, including the National Supercomputing Service, Data Storage, high-speed internet connections such as eduroam, and advanced cloud services to universities, universities of applied sciences, university medical centres, and other research organisations. These support a world-class and competitive research and education ecosystem in the Netherlands. Its relations with the UK over the years have been strong within the academic and research communities and related public-private partnerships.

The institutions jointly own SURF and collaboratively drive innovation and transformation in technology, infrastructure, and applications. They also adopt a broader approach to the digital infrastructure ecosystem for education and research, covering funding, sovereignty, policy, skills development, and community engagement. We have over 100 members within the Dutch research and education ecosystem.

Mark Cole
Innovation Lead

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TNO Vector

TNO – the Netherlands Organisation for Applied Scientific Research – is an independent, not-for-profit research organisation. It comprises six research units: ICT, Strategy and Policy; Defence, Safety and Security; High Tech Industry; Energy & Materials Transition; Mobility & Built Environment; and Health and Work.

TNO Vector – TNO's Centre for Societal Innovation and Strategy – helps public and private organisations respond to the major societal developments and challenges of our time, such as the digitalisation of the economy and society. We do this on the basis of our wide-ranging, in-depth knowledge and in conjunction with a complex stakeholder environment. In this way we give direction to the society of tomorrow and beyond.

Leveraging the expertise of the six units of TNO, we provide research services, policy advice, and orchestrate innovation. We provide services to the Dutch government and other public parties (e.g. the European Union), as well as private sector organisations in all business sectors, nationally and internationally.

Key topics that we work on include: Digital Trust, Digital Resilience and Sovereignty, Digital Governance, Economic and Innovation Policy, Sustainability, as well as Business and Finance Modelling.

Augustinus Mohn
Head of Department - Digital Governance and Regulation

Anna van Buerenplein 1
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https://vector.tno.nl/en

verticai

Verticai

Verticai develops and markets a software platform with corresponding services for speech-driven reporting in healthcare and public services based on generative AI technology.

We aim at reducing the administrative burden, increasing job satisfaction, improving patient/ client experience, and reporting quality and uniformity. Our technology stack is LLM agnostic and interfaces with the electronic patient/client records system of the customer organization.

We specialize in markets such as mental care, occupational health, and social care provided by municipalities and their subcontractors.

At Verticai we are interested in establishing international liaisons in the business of speech-driven reporting, such as:

- Standardization initiatives on a European or global scale for interfacing in speech-transcription, anonymization and de-identification, cloud performance balancing, and domain-specific language models.
- R&D collaboration in the framework of Horizon Europe, EuroStars, and European Innovation Council, EU4Health, etc..
- Efficiency and effectiveness studies on speech-reporting in various societal sectors.
- Research on LLM-on-a-chip, NPUs, TPUs, industry-specific language models, and small language models for energy efficient and compact speech-reporting for outpatient nursing and mobile police officers.

Sjaak Brinkkemper
Founder - Scientific Officer

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https://www.verticai.nl

Delegation

Track Integrated photonics

Aluvia Photonics BV

Aluvia Photonics is a photonic integrated circuit (PIC) platform provider and the first comparny in the world manufacturing PICS based on aluminum oxide (Al_2O_3) technology, a unique material system offering ultra-low optical losses, broad transparency from the UV to mid-IR, and on-chip optical amplification. Founded in 2022 as a University of Twente spin-off, Aluvia delivers advanced fabrication and testing services, from early prototypes to scalable 200 mm wafer production.

Our platform enables high-performance, energy-efficient solutions for applications including telecommunications, quantum computing, sensing, and neuromorphic computing. In the future-of-compute value chain, Aluvia provides the enabling photonic hardware foundation—delivering tested dies and wafers to system developers, OEMs, and research organisations worldwide.

We collaborate closely with packaging providers and system integrators to deliver turnkey solutions, and are actively engaged in European R&D programmes. Our interest in the UK is to connect with AI hardware developers, neuromorphic computing innovators, and integrated photonics researchers to jointly develop next-generation computing systems that combine high bandwidth, low energy consumption, and scalable manufacturing.

Through this mission, we aim to explore collaborative R&D, form strategic partnerships, and bring our unique material platform to UK–Dutch innovation efforts in shaping the future of computing.

Steve Stoffels
CEO

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https://aluviaphotonics.com/

Brabant Development Agency (BOM)

Daniël van den Brand
Project Manager UK & Nordics

Brabant Development Agency (BOM) is the regional economic development agency for the Dutch province of North Brabant. BOM supports innovative companies and international investors by facilitating strategic partnerships, enabling access to funding, and connecting them to Brabant's world-class ecosystems in high-tech systems, semiconductors, life sciences, energy, and agrifood.

As Project Manager UK & Nordics, I focus on attracting and supporting companies from the United Kingdom and Nordic countries that seek to expand into the Dutch market. My work centers on identifying strategic fits within Brabant's value chains, and guiding companies through the soft landing process. I collaborate closely with regional clusters, campuses, and knowledge institutions to match foreign expertise with local innovation capacity.

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https://www.bom.nl/en

Bruco Integrated Circuits bv

Bruco Integrated Circuits is the largest Dutch independent fabless IC design center focusing on RF IC, Analog/Mixed-signal IC design and RF Power application design. We provide design services and turn-key solutions from early system specification to qualified silicon and take care of the supply chain during product lifetime.

Our designs can be found in many products close to home like, mobile phones, lighting, industry, cars, and personal entertainment.

Our team of highly skilled people consists of over thirty-five IC design and application engineers with Bachelor, Master and PhD degrees with various backgrounds and about eight different nationalities.

Bruco IC has a design office and RF measurement laboratory in Borne (HQ), the Netherlands, a design office in Nijmegen, the Netherlands and a design office in Berlin, Germany.

Gerard Voshaar
Innovation Manager

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EFFECT Photonics

EFFECT Photonics is a highly vertically integrated, independent photonic semiconductor company, addressing the need for high-performance, affordable solutions driven by the ever-increasing demand for bandwidth and faster data transfer capabilities.

EFFECT Photonics, operating on a global scale, is headquartered in Eindhoven, The Netherlands, along with offices in the UK, the US, and Taiwan, and a vast network of sales partners spread across the globe.

With the explosive growth in AI and cloud, the demand for bandwidth and faster data transfer capabilities is more necessary than ever. EFFECT Photonics uses its digital-to-light technologies to interconnect our ever-changing world by providing solutions that are sustainable, cost-efficient and scalable.

As a highly vertically integrated, independent and global optical systems company, we aim to disrupt, challenge and simplify what possible in datacom and telecom networks so that people can be connected to whatever, whomever, whenever and however they choose.

Sophie De Maesschalck
CFO

Tim Koene
CTO

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https://effectphotonics.com

imec the Netherlands

About imec:
For more than 40 years, imec has been at the forefront of chip innovation. Imec is the world-leading, independent research center in the field of chip and digital technologies. We collaborate with academia, industrial partners and startups to push the boundaries of what is possible. Together, we ensure breakthroughs towards chips that are smaller, faster and more sustainable. For example, every smartphone contains chip technology that was invented by imec.

Jesse Robbers
Regional Managing Director imec NL

Imec brings together more than 6,000 researchers and engineers from approximately 100 different countries. Their expertise and diversity accelerate innovations and groundbreaking discoveries.

About imec in the Netherlands
Since 2005, imec has also had research locations in the Netherlands. With a multidisciplinary team of experts, we strive to create chip-based solutions that contribute to an economically strong, sustainable and healthy future. Imec in the Netherlands has 250 employees from more than 40 nationalities across four locations. We work intensively with universities, other research institutions (such as TNO), governments, companies and investors. Partly because of this, imec in the Netherlands plays a crucial role in the chip innovation ecosystem.

Imec at Holst Centre
In Eindhoven, imec works together with TNO. We develop technologies such as integrated photonics, wireless technology, AI & data and quantum technology. The focus here is on applications for the domains of health, automotive, and high-tech industry.

One Planet Research Centre
In Wageningen and Nijmegen, imec works together with Wageningen University & Research, Radboud University and RadboudUMC. We focus on the development of chip-based applications that contribute to solutions for societal challenges. Particularly in the areas of healthcare, agriculture and the environment.

High NA EUV Lithography Lab
In a joint lab in Veldhoven, ASML and imec are working on the latest High NA EUV chip machine and its application. International chip manufacturers gain access here to the latest chip production technology. This lab is a powerful example of the 40-year collaboration between the global players ASML and imec.

High tech campus 31
5656 AE Eindhoven
The Netherlands
www.imec.nl

Itility B.V.

Itility is a technology consulting and engineering firm that is headquartered in Eindhoven and with offices in San Jose and San Diego. We have a track record in delivering projects and services for leading companies in the semiconductor industry and photonics industry (e.g. ASML, NXP, Smart Photonics, Effect Photonics).

As part of the PhotonDelta ecosystem, we focus on applying IT to accelerate the development and industrialization of photonics. Our expertise lies in design enablement and foundry automation / optimization. We combine engineering capabilities in cloud, data, AI, and software with expertise on business applications (PLM, ERP, MES).

Our interest in the United Kingdom is to strengthen collaborations in the photonics value chain (from R&D to industrial applications) and to connect with partners who share the ambition to accelerate photonics with IT capabilities. We recognize the growing photonics industry in the UK (a.o. in the Southampton area) with which we see strong potential to create international partnerships. Through those partnerships we aim to accelerate photonics innovation and manufacturing excellence.

Jonathan Kaijser
Head of Software &
Photonics Consulting

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PHIX Photonics Assembly

PHIX offers assembly services and contract manufacturing for photonic integrated circuits (PICs) and MEMS. We build optoelectronic modules based on all major PIC technology platforms, such as indium phosphide, silicon photonics, silicon nitride, and planar lightwave circuit. We specialize in chip-to-chip hybrid integration, coupling to fiber arrays, and interfacing of DC and RF electrical signals. By offering our knowledge already at the chip design stage, we ensure ease of scale-up for volume manufacturing. PHIX provides a one-stop-shop for PIC and MEMS assembly, from design to volume production.

We have a state-of-the-art production facility located in Enschede, the Netherlands, supporting the global industrial development of PIC and MEMS enabled modules.

Milan Milosevic
Director, Research & Innovation

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PhotonDelta

PhotonDelta

PhotonDelta is a non-profit organisation supporting an end-to-end value chain for photonic chips that designs, develops, and manufactures innovative solutions that contribute to a better world. We do so by creating global awareness and promoting the benefits and potential of the Dutch and European photonic chip industry and its technologies.

Eelko Brinkhoff
CEO

Photonic chip technology is poised to transform the data centre and telecom industries by addressing some of their most urgent challenges: reducing energy consumption, expanding data bandwidth, improving heat dissipation, and enhancing scalability. Beyond these sectors, photonic chips are unlocking new frontiers in sensing applications across mobility, agrifood, and healthcare — driving innovations such as autonomous vehicles, sustainable food production, and personalized healthcare for an ageing population.

Abdul Rahim
Ecosystem Manager

PhotonDelta is committed to facilitating the growth of startups, the creation of new photonic chip applications, as well as the development of infrastructure and talent. Leveraging funding from the Dutch National Growth Fund, alongside strategic investments, we catalyse the acceleration of the photonic chip industry by stimulating industrialisation of PIC technology, and PIC-based application building, and forging connections with viable markets and stakeholders.
PhotonDelta is located in the
Netherlands and is seeking for collaborations worldwide.

Our interest in the UK to make connections in the value chain of integrated photonics, especially in chip-design, advanced packaging and heterogenous integration

High Tech Campus 32
5656 AE Eindhoven
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www.photondelta.com

Sioux Technologies B.V.

Sioux stands out as a technology partner and supports Research & Development departments, with knowledge and experience in system development, mathematics, applied AI, software, integration and construction of modules and systems where advanced high-tech technology makes the difference.

We help our clients to be faster on the market with their developments, resource high-tech knowledge, collaborate in teams and bring experience in science and technology. Sioux is leading in the domain of Inspection & Analysis and is expert in Extreme Positioning.

Sioux has the necessary domain- and technical knowledge for converting complex issues into scalable solutions, preferably in Semicon, Analytical or Medical device domains. If the challenge is at the edge of physics, we feel comfortable.

Hank Guitjens
Business Development Manager

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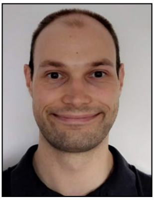
Netherlands Organization for Applied Scientific Research (TNO)

TNO plays a pivotal role in the Dutch innovation ecosystem, bridging the gap between academic research and industrial application. By co-developing technologies with partners across sectors such as telecom, defense, and high-tech manufacturing, TNO ensures that emerging computing paradigms are not only visionary but also practical and scalable. TNO is actively building the capabilities and partnerships needed to contribute to this domain in the near future.

In the context of the Future of Compute, TNO is advancing integrated photonics as a key enabler for ultra-fast, energy-efficient data processing—crucial for AI and neuromorphic computing. These technologies are embedded into complex, distributed environments where adaptability and reliability are essential. TNO's expertise spans photonic design, computing systems engineering, and embedded software integration, allowing it to address challenges from chip-level innovation to system-level integration.

Through its involvement in national and EU innovation programs, TNO reinforces its position as a trusted link in the value chain—accelerating the transition from concept to commercialization and helping shape a resilient, future-ready compute ecosystem.

Kévin Cognée
PIC scientist



Giel Keijsers
Scientist

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https://www.tno.nl/en/about-tno/organisation/units/high-tech-industry/

Delegation

Track Neuromorphic computing

BRAINS
CENTER FOR BRAIN-INSPIRED COMPUTING

Center for Brain-Inspired Computing - University of Twente

Wilfred van der Wiel
Co-director BRAINS/ Professor of Nanoelectronics

The mission of the Center for Brain-Inspired Computing (BRAINS) is to develop efficient hardware for information processing. We combine core expertise in nanoscience and nanotechnology with expertise from computer science, applied mathematics, artificial intelligence and neuroscience, to lay the scientific foundations for a new generation of powerful, energy-efficient computing hardware. Artificial and biological neural networks, in particular the brain, form a main inspiration. It is our ambition to understand the key features underlying the functioning of the brain, and translate those into hardware. Our research includes, but is not limited to reconfigurable, memristive and adaptive materials, artificial neurons and synapses, evolution in materia and neuromorphic architectures. We look at the connection between our hardware and conventional (CMOS) electronics, and at the interface with biological systems. Societal implications and philosophical aspects are studied.

BRAINS is an inter-faculty center of the University of Twente with investigators from the MESA+ Institute for Nanotechnology, the Digital Society Institute and the Faculty of Behavioural, Management and Social sciences. The center aims to provide coherence and visibility. With its focus and critical mass BRAINS hopes to be a valuable partner in national and international consortia.

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www.utwente.nl/en/mesaplus/research/centres-of-expertise/brains/

CogniGron

The Groningen Cognitive Systems and Materials Center (CogniGron) at the University of Groningen is a cutting-edge research hub revolutionising neuromorphic computing. We delve into self-learning materials and advanced systems for brain-inspired computing, drawing inspiration from the human brain to tackle complex challenges with unparalleled efficiency.

Jesse Siegers
Managing Director

Dirk Pleiter
Scientific Director

Judith Paridaen
Scientific Coordinator

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https://www.rug.nl/research/fse/cognitive-systems-and-materials/?lang=en

Eindhoven University of Technology

Eindhoven University of Technology (TU/e) is a public research university in the Netherlands, established in 1956. Located in Eindhoven, at the heart of the deep tech Brainport region, it specializes in engineering science and technology. TU/e has around 14,000 students enrolled in BSc and MSc programs, and approximately 1,350 in PhD and EngD programs. The university is known for its strong emphasis on innovation and collaboration with industry, local government, and academia. TU/e is a member of the EuroTech Universities Alliance.

As a researcher at TU/e, I am strongly motivated to participate in this mission on neuromorphic computing and photonics, building on the university's tradition of excellence in high-tech systems and photonic integration. My research focuses on neuromorphic photonics, exploring brain-inspired computing architectures that leverage the speed and energy efficiency of light. Attending this mission offers a unique opportunity to connect with leading UK groups and industry partners whose expertise complements ours. I aim to exchange knowledge, identify synergies, and explore collaborative projects that can accelerate progress in this emerging field. By representing TU/e, I hope to strengthen international networks and contribute to positioning Europe at the forefront of neuromorphic photonics.

Patty Stabile
Associate Professor

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https://www.tue.nl/en/research

Hiro-MicroDataCenters BV

HIRO-MicroDataCenters develops compact, high performance, reliable edge-to-edge infrastructures (hardware and software) and edge native services to support your big data and AI processing on premise, while protecting your data, meta data and AI models. An on-premise mesh of Edge MicroDatacenters (EMDC's) embedded in your edge will act as a highly interactive, scalable and context-driven infrastructure that self-heals, scales up and down, authenticates and authorises devices, users and tenants and detects and isolates anomaly behaviour at your Edge.

Our Braine software built from open source modules, has high levels of automation and AI built-in for declarative deployment and management of edge services and applications, increased flexibility for assigning functions and application components to EMDC hardware, improved operational efficiencies resulting from common automation and operating procedures and reduced power usage by placing workloads intelligently and powering down unused hardware.

Fred Buining
CEO/CTO

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https://hiro-microdatacenters.nl

Innatera

Innatera Nanosystems

Innatera is at the forefront of a new era of ambient intelligence, delivering unmatched efficiency and responsiveness. We've developed the world's first ultra-efficient neuromorphic microprocessor, inspired by the human brain, to process data right at the sensor node. This approach reduces the need for energy-intensive cloud routes, enabling real-time, ultra low-power computation that also safeguards privacy.

This technology's promise aligns closely with the UK's ambition to be part of the global AI revolution. As the UK accelerates its investments in next-generation AI technologies and builds a framework for smart infrastructure, our solutions offer a pathway to unparalleled efficiency and sustainability. By reducing dependence on energy-intensive cloud computing and enabling secure, low-latency edge processing, we address key challenges such as energy costs, carbon emissions, and data sovereignty—critical to both industry and society. From autonomous systems in advanced manufacturing to adaptive healthcare devices and intelligent environmental monitoring, our technology enables the UK to unlock the full potential of ambient intelligence while meeting its sustainability goals.

Petrut Bogdan
Neuromorphic Architect

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NLWorks

At NLWorks, we accelerate the creation of international networks, bringing together entrepreneurs and governments to build collaborative business solutions. We align the ambitions and needs of Dutch and international entrepreneurs with those of governments, helping to create impact-driven programmes that are not only profitable but also deliver societal value. By bridging the gap between the private and public sectors, we believe we can tackle global challenges and create sustainable, long-lasting solutions for sustainability and digital transitions worldwide.

NLWorks is commissioned by the Dutch Ministry of Economic Affairs and the Ministry of Foreign Affairs to support the bilateral collaboration between the UK and the Netherlands on neuromorphic computing. Together with key stakeholders from the private sector and academia, a strategic roadmap for collaboration is developed and validated during this mission.

Siebe Stellingwerf
International
Partnership Developer

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https://www.nl-works.com/

Radboud University

Radboud University (RU) is a broad university with leading expertise in 4 of the 6 sub-areas of Neuromorphic Computing (NC): Materials, Devices, Algorithms and Applications. RU also plays a coordinating role in the creation of the white paper on NC in the Netherlands (https://www.ru.nl/en/research/research-news/white-paper-highlights-potential-of-brain-inspired-computing) and the further development of a common vision and establishment of a coalition for NC in the Netherlands.

RU has recently established a neuromorphic computing initiative (https://www.ru.nl/en/research/research-themes/neuromorphic-computing) which combines expertise from the Donders Institute on brain-inspired computing with expertise from the Institute for Molecules and Materials on unconventional computing. We are keen to explore academic and industrial collaborations on the topic of neuromorphic computing.

Next to Neuromorphic Computing, RU has also key expertise in AI, is member of AINed and many related AI organisations. Furthermore, RU has key expertise in photonics research.

Alexander Khajetoorians
Professor

Johan Mentink
Figure head Dutch Neuromorphic Alliance (under formation)
Assistant professor theoretical physics

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https://www.ru.nl/en

SURF

SURF is the collaborative organisation for ICT in Dutch Education and Research. It provides specialised digital solutions and services, including the National Supercomputing Service, Data Storage, high-speed internet connections such as eduroam, and advanced cloud services to universities, universities of applied sciences, university medical centres, and other research organisations. These support a world-class and competitive research and education ecosystem in the Netherlands. Its relations with the UK over the years have been strong within the academic and research communities and related public-private partnerships.

The institutions jointly own SURF and collaboratively drive innovation and transformation in technology, infrastructure, and applications. They also adopt a broader approach to the digital infrastructure ecosystem for education and research, covering funding, sovereignty, policy, skills development, and community engagement. We have over 100 members within the Dutch research and education ecosystem.

Sagar Dolas
Senior Advisor &
Program Manager

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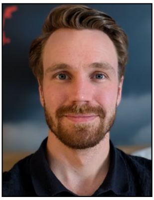
https://www.surf.nl/en

Netherlands Organisation for Applied Scientific Research (TNO)

TNO ICT, Strategy and Policy (ISP) works to find innovative answers to the big challenges of our time. We combine digital and societal innovations and bring movement where transitions become stuck. We work to build both breakthroughs and support. In ways that connect people, society, and technology. New perspectives, digital innovations, and better policy designs are our solutions to persistent societal challenges.

We aim to develop methodologies and technologies with a combined effect on earning power and quality of life. In our approach we are fully aware that technology itself will not resolve societal issues. Therefore, we seek to select these societal issues were technology can create an impetus for change and were existing markets do not yet exist or do not deliver value to societal needs. Programming with a wide group of stakeholders and programming for impact ensures that TNO ISP can deliver to the best of its abilities. Our focus is on the digital and industry transitions, including the security and sustainability aspects within these transitions. Our knowledgebase consists of key enabling digital and information technologies, such as AI, cyber security, data sharing, digital connectivity and hybrid compute infrastructure.

Omar Niamut
Director of Science



Edser Apperloo
Scientist Integrator - Advanced Computing Engineering

Anna van Buerenplein 1
2595 DA The Hague
The Netherlands

https://www.tno.nl/en/digital/

Topsector ICT

Topsector ICT is one of ten “top sectors” in the Netherlands and part of the Dutch government’s Mission-driven Top Sectors and Innovation Policy. The mission of Topsector ICT is to support companies, government agencies and knowledge institutions to realize ICT innovations through knowledge exchange and close cooperation. To this end Topsector ICT stimulates national public-private coalitions around digital technologies. Topsector ICT covers the entire spectrum from fundamental research up to valorization. Educating new talent, retraining, and updating skills, disseminating knowledge, actively involving SMEs, and fostering international collaboration constitute significant components of the mission.

Neuromorphic Technology is one of the seven Digital and Information Technologies (DITs) considered crucial for economic growth, competitiveness and innovation within the Knowledge and Innovation Agenda Digitalisation (KIA Digitalisation) that Topsector ICT coordinates. The KIA Digitalisation provides a framework and useful points of reference for future ICT research and innovation for the 2024-2027 period. Topsector ICT also coordinates the Dutch National Technology Strategy action agenda’s AI/Data and Cybersecurity Technologies.

Frits Grotenhuis
Director

Bas van der Starre
Project Manager
Neuromorphic
Computing

Tijs Koops
Program Manager
Internationalisation

Bezuidenhoutseweg 12
2594 AV The Hague
The Netherlands

https://topsector-ict.nl/en/

MESA+ Institute - University of Twente

Hans Hilgenkamp
Scientific Director
MESA+ Institute

The University of Twente (UT) is a modern university of technology. At the UT, the research institute MESA+ initiates and coordinates research activities in the fields of a.o., chip technology and related materials science, integrated photonics and neuromorphic computing. There is a close connection also to the UT activities in the field of AI.

The MESA+ institute also manages the UT NanoLab, encompassing a large cleanroom for dual academic/industrial use and a suite of materials synthesis and characterization facilities. MESA+ is furthermore coordinating national initiatives such as NanoLabNL, the network of the largest public nanotechnology facilities in The Netherlands.

From the side of MESA+ / University of Twente there is a great interest to strengthen the research collaboration with public and private partners in the UK and to facilitate student and staff exchanges.

Drienerlolaan 5
7522 NB Enschede
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https://www.utwente.nl/

Organization

Kingdom of the Netherlands

Embassy of the Kingdom of the Netherlands
Netherlands Innovation Network
in London, United Kingdom

The Netherlands Innovation Network stimulates international cooperation between companies, research institutes and public authorities in the fields of innovation, technology and science. The network's activities help implement the international knowledge and innovation agenda of the Dutch government. We address national and global challenges, aiming to further develop key enabling technologies through international cooperation and a worldwide network of offices.

As Netherlands Innovation Network team in the United Kingdom we focus on brokering collaboration around key emerging technologies between companies, research institutes and public authorities in the Netherlands and the United Kingdom.

We look forward to discussing further opportunities for sustainable innovation partnerships, in order to jointly advance our common innovation, technology and science ambitions.

Marjolein Bouwers
Chief Innovation Advisor

Martijn Bergmans
Senior Innovation Advisor

Iris Leussink
Senior Innovation Advisor

Dagmar Schepers
Innovation Advisor

Bente van den Braber
Innovation Advisor

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United Kingdom

https://english.rvo.nl/partners-network/expand-your-international-network/netherlands-innovation-network

Ministry of Economic Affairs

Ministry of Economic Affairs
Digital Economy Department

The Directorate of Digital Economy (DE) handles the full spectrum of digitalisation of the economy, ranging from telecommunications and digital infrastructure up to the promotion and adoption of digital technologies such as AI. The directorate ensures that conditions for markets and networks for electronic communication are in place for consumers and businesses. This concerns the physical infrastructure, communication and data services, and data and AI.

Martijn Lucassen is a former diplomat and EU advisor to the Prime Minister who joined the Management Team of the Digital Economy Directorate of the Ministry of Economic Affairs in December 2020. In April 2025, Martijn took up his current role as Director.
Martijn leads a team of around 100 staff. Activities of his team include ensuring excellent connectivity for all users of digital services in the Netherlands, programming for digital innovation, shaping the digital regulatory environment and ensuring the continuity and (cyber)security of the digital economy and infrastructure.

At the ministry of Economic Affairs, Corka Scheeringa works for the Department of Digital Economy in the AI and Strategy & International team. She is responsible for bilateral collaborations on AI and works closely with the innovation-attaché network and Dutch partners on AI. She holds a broad background in both the public and private sector.

Martijn Lucassen
Director at the Digital Economy Department

Corka Scheeringa
Senior Policy Officer – International & AI

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https://www.rijksoverheid.nl/ministeries/ministerie-van-economische-zaken

Ministry of Economic Affairs

Ministry of Economic Affairs
Directorate Innovation

The Innovation directorate is responsible for an effective innovation & knowledge policy. It does so by working on further growth of public and private investments, by using national and international instruments more effectively and by encouraging companies to invest more in knowledge and innovation. The Innovation directorate works closely together with other departments, knowledge institutes and businesses to stimulate innovations to increase earning potential. It also coordinates the Dutch contribution to European knowledge and innovation policy.

In the past four years, Erwin has gained extensive experience in knowledge and innovation investments and public-private partnerships at the Ministry of Economic Affairs and the National Growth Fund. Before transitioning to the public sector, he led teams at Shell in areas such as strategy and organizational change, performance and risk management, and improving collaboration between diverse stakeholders. In leadership, he brings ambition, connection, and inspiration for personal growth and organizational development.

At the ministry of economic affairs, Roel works for the directorate for innovation. He is from a policy perspective responsible for the bilateral innovation relation between the Netherlands and the UK. His team works closely with the innovation-attaché network around the world to stimulate international cooperation for companies, research institutes and public authorities in the fields of innovation, technology and science.

Erwin Nijsse
Director-General for Enterprise and Innovation

Roel Bruinsma
Policy Advisor Internation Innovation

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https://www.rijksoverheid.nl/ministeries/ministerie-van-economische-zaken

Netherlands Enterprise Agency

Netherlands Enterprise Agency
International Innovation Department
(Rijksdienst voor Ondernemend Nederland, RVO)

The Netherlands Enterprise Agency (RVO) is the executive agency of the Ministry of Economic Affairs. It promotes sustainable development and innovation in the Netherlands and abroad, providing information, advice, financing, networking, and regulatory support for entrepreneurs, knowledge institutes, and governments.

As department Innovation and Entrepreneurship we offer services as IP-advice and regulation, innovation credits, innovation missions, tax credit for research and development, among others.

The Department of International Innovation Cooperation at RVO strengthens the international position of Dutch businesses, knowledge institutions, and governments by fostering cross-border collaboration in research, development, and innovation. The department supports Dutch organisations in building international partnerships, accessing European and global funding opportunities, and participating in innovation missions and matchmaking activities.

Its work focuses on advancing sustainable solutions to global challenges such as clean energy, water management, food security, and responsible value chains. By connecting Dutch innovators with international partners and sharing knowledge on global trends and policies, the department contributes to the Netherlands' competitiveness, sustainable growth, and the achievement of international development and climate goals.

Ellen Jacobs
Director of Innovation and Entrepreneurship

Ruben Wassink
Strategic Advisor and Coordinator Digitalization

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https://www.rvo.nl/onderwerpen/innovatiemissies

Netherlands