NTNU in Europe: List of calls with their respective interested NTNU researchers

Produced by: NTNU Brussels Office, NTNU Oceans, NTNU Sustainability, NTNU Nano, NTNU food forum, NV faculty
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Dear Reader,

Are you looking for the best researchers with whom to collaborate on Horizon Europe cluster 6 calls? Then please, read on.

At NTNU, the Norwegian University of Science and Technology, we have matched our researchers to the upcoming Horizon Europe 2023/2024 calls, based on both their expertise and the industry relations they can bring to the table.

As the largest university in Norway, we can be a powerful partner and collaborator. With more than 85 funded projects, of which 53 are already signed (accounting for more than € 32 million in funding) at the time of writing, we are setting even more ambitious targets for Horizon Europe 2023/2024 and going forward.

This document is one of six prospectuses that outline areas of expertise for - and of interest to - NTNU researchers, for each of the upcoming six clusters of Horizon Europe.

They are living documents. Even if you do not find an exact match, our research community would be thrilled to open a collaborative dialogue with you. Just ping a message to one of our institutional contact points, like NTNU’s Brussels Office.

Together, we can create true “knowledge for a better world”

Tor Grande
Pro-rector of Research
Knowledge provides people with opportunities and influence, as well as a foundation for making wise choices. Knowledge inspires and challenges. It changes attitudes, mindsets, and how we perceive the world around us. Informed debate strengthens our democracy. NTNU’s activities should benefit society as a whole and society can trust that our findings comply with best scientific practice.

Knowledge and technology development create opportunities for increasing sustainable value creation and finding answers to major challenges. Through the United Nations, the world has agreed on 17 Sustainable Development Goals. NTNU will contribute actively towards achieving the Sustainable Development Goals.

**NTNU’s strength is our competence in science and technology combined with academic breadth and interdisciplinarity.**
NTNU is a university with an international focus, with headquarters in Trondheim and campuses in Ålesund and Gjøvik. NTNU has a main profile in science and technology, a variety of programmes of professional study, and great academic breadth, including medicine, architecture, and entrepreneurship.

**KEY NUMBERS FOR 2022**

- **NOK 10 billion** annual budget
- **44 170** students
- **7761** person-years
- **412** doctoral degrees

NTNU offers 397 programmes of study (2022), as well as continuing and further education. The university has the main responsibility for higher education in technology in Norway, and largest in engineering, teacher education and architecture. NTNU aims to be a national hub in programmes of professional study.

NTNU is the institution awarded the most funding from the Research Council in Norway, as well as being granted with 255 signed projects and a total funding of more than €141 million from Horizon 2020. Moreover, NTNU is a host or partner for 46 major research centers (SFF, SFI, and FME), and has internal initiatives to develop and recruit top researchers.

In Horizon Europe (HEU) - as of March 2023 - NTNU has 97 funded projects, of which 77 are already signed (accounting for more than € 46 million in funding), positioning NTNU among the top HEU Norwegian actors, and among the top 10 actors within the European Higher Education Sector in HEU.

Beyond its science and technology profile, NTNU covers a broad range of social science and humanities (SSH) disciplines including sociology, political science, education, psychology, economics, history, cultural sciences and the arts. Researchers from SSH disciplines have successfully addressed societal issues and contributed to social innovation through involvement in more than 30 HEU projects so far, presenting NTNU as promising and strong partner in future European collaborations in all Global Challenge clusters under Horizon Europe.

From 2014-2023, NTNU has identified several strategic research areas and enabling technologies:
The NTNU Brussels Office represents NTNU in Brussels, provides strategic advice on European policies, promotes NTNU positions, manages or participates in strategic networks and initiatives in Brussels, and provides professional services to the NTNU community based on its Brussels presence.

The office represents both «the door to NTNU» for organizations that want to collaborate and create synergies with NTNU, and «the door to Europe» for colleague active in or willing to enter the European Arena.

NTNU opened the doors to its Brussels Office in 2015 and today the staff consists of four people, Director Massimo Busuoli, one Senior Adviser and two trainees.

The office activities and services include the following:

- Promotion and representation of NTNU in Brussels
- Positioning of NTNU in relevant Brussels-based initiatives and bodies
- Contribution to improve NTNU's EU project portfolio
- Provide internship opportunities for NTNU employees and students
- Provision of logistic support and services in Brussels
NTNU OCEANS

NTNU's thematic research area on oceans has as its overarching vision to contribute to solving complex sustainability challenges in the ocean space. The aim is to promote ocean related research, education, innovation and outreach within technology, natural and social sciences, humanities and the arts, and specifically to facilitate interdisciplinary activity cutting across these areas.

Our research activities are centered on the following six areas:

**Sustainable use of ocean resources – seafood and marine bio-resources.**
- Salmon farming, with a special focus on the environmental factors.
- Aquaculture technology.
- Improved utilization of bio-marine resources

**Sustainable use of ocean resources – energy and minerals**
- Exploring the possibility of sustainable extraction of marine minerals.
- The possibility for sustainable development of ocean wind and potential other renewable energy sources at sea
Mapping and monitoring of the ocean space
- Consequences of climate change and pollution.
- The Arctic and northern ocean areas.
- Autonomous systems.

Blue art and the humanities
- Historic and cultural studies of technology and management of natural resources.
- Research ethics, technology ethics, and environmental ethics.
- Art and media, what is the role of artists and the media in addressing global challenges connected to the oceans.

Sustainable coastal communities, administration and economy
- Administration of the ocean and ocean resources - locally, nationally and internationally.
- Circular ocean and coastal economy

Green maritime transport and infrastructure
- Energy efficiency
- Autonomous systems

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Overcoming the grand challenges of our time will require new thinking and new knowledge. This is the motivation of NTNU Sustainability, which is one of four strategic research areas at NTNU. The programme brings together the best minds from a range of disciplines to create the knowledge needed by society to understand and change unsustainable patterns of behaviour and development.

NTNU’s research includes environmental, economic and social aspects of sustainability in the broadest sense, however, NTNU Sustainability works with some 20 core research units at the university that excel in the field of environmental sustainability, and with focus on four main areas of research:

**Area A** – Sustainable use and conservation of biodiversity and ecosystem services  
**Area B** – Circular economy and resource efficiency  
**Area C** – Climate change mitigation and adaptation  
**Area D** – Transition towards smart sustainable cities and built environment

To secure strategic interdisciplinary collaboration, these main areas combine elements of research across three interlinked dimensions:

i) Research on innovative, methods solutions and technologies,  
ii) Research on modelling, analysis and environmental impact assessment,  
iii) Research on behavior and governance for realizing improvement potential.
NTNU Sustainability

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NTNU Nano

NTNU is home to the largest centre for nanoscience and nanotechnology in Norway. The aim of the strategic initiative NTNU Nano is to coordinate and promote research within nanotechnology, nanoscience and functional materials at NTNU.

Nanotechnology and nanoscience is to a large extent of fundamental nature. However, the potential for future applications is large. NTNU NanoLab aims to be a promoter in the process of establishing new industrial initiatives.

Active research areas within nanoscience and nanotechnology are:
- Nanotechnology for energy and environment
- Nanostructured materials
- Nanoelectronics, nanomagnetism and nanophotonics
- Bionanotechnology
NTNU Food Forum

With a vision to effectively contribute to the European efforts in this important thematic area, the University have created the NTNU Food Forum.

The forum mobilizes around 100 scientific and administrative staff from 8 faculties and 25 departments working with food research, innovation and education, guaranteeing a wide multidisciplinary approach.

The NTNU Food Forum joins social science and humanities expertise with technological, medical and natural science expertise to create collaborative arenas and reach out to industry and civic sectors addressing grand challenges around food.

Through this, NTNU expects also maximize the contribution in knowledge and research capabilities that the biggest Norwegian University can provide to the European System in this important area.

Eva Falch
Head of NTNU Food Forum
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Mail: eva.falch@ntnu.no
In line with its vision “Natural sciences and technology for a better future”, the research at the Faculty of Natural Sciences addresses global challenges in energy, climate, environment, food, water, health and welfare. Our research activities range from basic research within biology, physics and chemistry, to enabling technologies such as biotechnology, materials technology and nanotechnology.

The faculty hosts three Norwegian Centres of Excellence, within conservation biology, physics of porous media and quantum spintronics respectively, and takes part in several others.

Four Centres for Research-based Innovation are also lead from the faculty, they cover the areas of industrial innovation within the areas of subsea production and processing, industrial catalysis, and metal production.

The faculty is characterized by extensive laboratory infrastructure and field work in education and research, and hosts both university-wide and national research infrastructures.

Among others, these include:

- NTNU's Centre of Fisheries and Aquaculture (SeaLab)
- The Research Vessel Gunnerus is equipped with state-of-the-art technology for a variety of research activities within biology, technology, geology, archaeology, oceanography and fisheries research.
- Digital Life Norway national research centre for biotechnological education, research and innovation
The Department of Natural History at NTNU University Museum conducts research in biosystematics and evolutionary genomics, ecological processes and species distribution. It contains well-equipped DNA-laboratories, and the natural history collection dates to the 1760s. The collection holds approximately 1 040 000 physical objects.

The department works within the fields of integrative biosystematics, by description of species and their distribution, analysis of evolutionary relationships and processes leading to speciation. We use novel genomic tools to answer questions concerning evolutionary processes. We apply diverse approaches from paleo-genomics, metagenomics, population genomics, phylogenomics, and multiomics to non-model organisms, including plants and animals, as well as their microbial communities.

By utilizing genetic material in natural history collections, we can track these processes in both space and time. We utilize natural history collections, ecological data and metadata to research three dimensions of biodiversity (species, phylogenetic and functional diversity) across space, time and trophic levels. We study effects of land use and climate change on biodiversity and ecosystem services.

The department also combines basic and applied research that contributes to knowledge-based management of species and habitat types with focus on mire and freshwater ecosystems.

Our researchers are involved in a wide range of nationally and EU-funded projects. Currently, we are partnering and coordinating Horizon Europe and EU RTD framework program projects, including an ERC Consolidator Grant (EXPLOAD). We also host the Norwegian node (NorBOL) of the International Barcode of Life Project (iBOL).
COLLABORATING WITH NTNU

As the largest Norwegian university with high multidisciplinary nature, NTNU offers a wide range of expertise and competences. Specific mapping of available researchers willing to collaborate on Horizon Europe have been performed for all clusters, producing documents similar to this brochure.

Make sure you have the latest version available by downloading it from this website.

Should you be interested to explore collaboration opportunities in areas not present in any of these brochures, you can get in touch with the institutional entry points of the university.

ENTRY POINTS

**NTNU Brussels Office**

**Faculty EU advisors:**
AD - Faculty of Architecture and Design
   - Tone Woie Alstadheim and Srutarshi Pradhan
HF - Faculty of Humanities
   - Chamila Thushari Attanapola
IE - Faculty of Information Technology and Electrical Engineering
   - Nathalie Søyseth and Filip Jessen
IV - Faculty of Engineering
   - Ingunn Syrstad Bøgeberg and Miriam K. Khider
MH - Faculty of Medicine and Health Sciences
   - Emma Louise Walton
NV - Faculty of Natural Sciences
   - Thais Mothe-Diniz and Eugen Gravningen Sørmo
SU - Faculty of Social and Educational Sciences
   - Bård Li and Jens Rohloff
ØK - Faculty of Economics and Management
   - Thomas Aarnseth
VM - NTNU University Museum
   - Astrid Johansen
NTNU in Gjøvik
   - Anne Hilde Ruen Nymoen
NTNU in Ålesund
   - Medya Temelli Fenerci
ASSOCIATED RESEARCHERS

**Destination 1:**
Biodiversity and ecosystem services

Here you can find potential NTNU professors and employees that are interested in collaborations on destination 1.

The following pages are sorted into the calls for the destination presented in the draft for cluster 6. To simplify your navigation among available expertise per topic, the list of topics have been made clickable.
Call - Biodiversity and ecosystem services.

Mainstreaming biodiversity in society and the economy.

HORIZON-CL6-2024-BIODIV-02-1-two-stage: Demonstrating Nature-based Solutions for the sustainable management of water resources in a changing climate, with special attention to reducing the impacts of extreme droughts.

HORIZON-CL6-2024-BIODIV-02-2-two-stage: Demonstrating the potential of Nature-based Solutions and the New European Bauhaus to contribute to sustainable, inclusive and resilient living spaces and communities.

Biodiversity friendly practices in agriculture, forestry and aquaculture.

HORIZON-CL6-2024-BIODIV-02-3-two-stage: Promoting minor crops in farming systems.
HORIZON-CL6-2024-BIODIV-02-1-TWO STAGE: DEMONSTRATING NATURE-BASED SOLUTIONS FOR THE SUSTAINABLE MANAGEMENT OF WATER RESOURCES IN A CHANGING CLIMATE, WITH SPECIAL ATTENTION TO REDUCING THE IMPACTS OF EXTREME DROUGHTS

Sveinung Sægrov
Department of Civil and Environmental Engineering
Faculty of Engineering

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sveinung.sagrov@ntnu.no
4793096277

Expertise
Water engineering

Relevant links
outside academia
Norsk Vann
Norwegian Church Aid

Relevant projects
EU projects
- BINGO
- TRUST
- TECHNEAU
- CITYNET
- CARE-S
- CARE-W
HORIZON-CL6-2024-BIODIV-02-2-TWO STAGE: DEMONSTRATING NATURE-BASED SOLUTIONS FOR THE SUSTAINABLE MANAGEMENT OF WATER RESOURCES IN A CHANGING CLIMATE, WITH SPECIAL ATTENTION TO REDUCING THE IMPACTS OF EXTREME DROUGHTS

Sveinung Sægrov
Department of Civil and Environmental Engineering
Faculty of Engineering

Contact information
sveinung.sagrov@ntnu.no
4793096277

Expertise
Water engineering

Relevant projects
EU projects
- BINGO
- TRUST
- TECHNEAU
- CITYNET
- CARE-S
- CARE-W

Relevant links outside academia
Norsk Vann
Norwegian Church Aid

Thomas Meyn
Department of Civil and Environmental Engineering
Faculty of Engineering

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thomas.meyn@ntnu.no

Expertise
Water treatment: Coagulation / flocculation, filtration, membranes, adsorption, oxidation Water quality analysis

Relevant projects
TECHNEAU: Safe Drinking Water from Source to Tap
TRUST: Transitions to the Urban Water Services of Tomorrow

Relevant links outside academia
Water treatment engineering companies, Norwegian Public Road Authorities, Municipalities
Lorenzo Cañás Bottos

Department of Social Anthropology
Faculty of Social and Educational Sciences

Expertise
I am a social anthropologist with ethnographic experience in Argentina, Bolivia, Ireland, Northern Ireland and Spain. My research spans topics from future imagination, nation state formation, migration, borders and religious conflict and mobility. More recently I have been focusing on food, including ethnic cuisines, cultural authenticity, heritage, to pig production and multi-species ethnography.

Relevant projects

Contact information
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ASSOCIATED RESEARCHERS

Destination 2:

Fair, healthy and environment-friendly food systems from primary production to consumption

Here you can find potential NTNU professors and employees that are interested in collaborations on destination 2.

The following pages are sorted into the calls for the destination presented in the draft for cluster 6. To simplify your navigation among available expertise per topic, the list of topics have been made clickable.
DESTINATION 2 - CALLS

Call - Fair, healthy and environmentally-friendly food systems from primary production to consumption.

Enabling sustainable farming.

HORIZON-CL6-2024-FARM2FORK-02-1-two-stage: Increasing the availability and use of non-contentious inputs in organic farming.

HORIZON-CL6-2024-FARM2FORK-02-2-two-stage: Sustainable organic food innovation labs: reinforcing the entire value chain.

HORIZON-CL6-2024-FARM2FORK-02-3-two-stage: Tools to increase the effectiveness of EU import controls for plant health.

HORIZON-CL6-2024-FARM2FORK-02-4-two-stage: Tackling outbreaks of plant pests.

HORIZON-CL6-2024-FARM2FORK-02-5-two-stage: Animal nutritional requirements and nutritional value of feed under different production management conditions.

Enabling sustainable fisheries and aquaculture.

HORIZON-CL6-2024-FARM2FORK-02-6-two-stage: Minimising climate impact on fisheries: mitigation and adaptation solutions for future climate regimes.

HORIZON-CL6-2024-FARM2FORK-02-7-two-stage: Minimising climate impact on aquaculture: mitigation and adaptation solutions for future climate regimes.
Cameron Ghalambor
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Faculty of Natural Sciences

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Expertise
Global Change Biology, Evolutionary Ecology, Ecophysiology

Expertise specific to this call:
Ecological and evolutionary physiological responses of insects

Relevant projects
Current: Physiological basis of insect community responses to climate change
Current: Landscape Phenomics: Predicting vulnerability to climate variation by linking environmental heterogeneity to genetic and phenotypic variation
Past: An integrative approach to the ecological and evolutionary causes of range limits
Past: An integrative trait-based approach to predicting variation in vulnerability of tropical and temperate steam biodiversity

Sarah Martin
Department of Natural History
Faculty of NTNU University Museum

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Relevant links outside academia
Previously worked in private sector (Guardant Health - a cancer diagnostic start-up company in USA. Worked in technology development to detect cfDNA).

Expertise
Genomic, transcriptomic and epigenomic methods - both in terms of laboratory and bioinformatic analyses.

Experience with various plant and animal species of varying quality (e.g. ancient DNA, herbarium collections, modern plant and animal tissue, and forensic specimens)

Relevant projects
Currently involved in a NORPART funded training network (BIGTREE) for biodiversity genomics.
Currently running EverGreen project exploring the ageing process (radiocarbon dating and somatic mutation analyses) and population genomics of Welwitschia mirabilis from Namibia.
Epigenomic studies in humans and cell cultures.
Transcriptomics of neurodegeneration.
Transcriptomics of ancient maize kernels.
Emre Yaksi
Department of Kavli Institute for Systems Neuroscience
Faculty of Medicine and Health Sciences

Contact information
emre.yaksi@ntnu.no
+4790738961

Expertise
Animal behavior, brain functional imaging, zebrafish, teleost fish, stress, feeding

Relevant projects
- **Function** of Chemosensory Circuits (#335561), Coordinator, ERC Starting Grant (1,5M Euros)
- **Modulation** of brain activity and sensory computations by habenula-dorsal raphe circuitry (#314212) Coordinator, NFR FRIPRO BIOMED research grant (12M NOK)
- **Investigating** the role of Gonadotropin-releasing hormone and Neuropeptide Y in modulation of brain circuits and animal behavior (#239973), Coordinator, NFR FRIPRO BIOMED young talent grant (8M NOK)
- **Exploring** Frontal Lobe Epilepsy, Coordinator, Helse Midt-Norge (8M NOK)
Here you can find potential NTNU professors and employees that are interested in collaborations on destination 3.

The following pages are sorted into the calls for the destination presented in the draft for cluster 6. To simplify your navigation among available expertise per topic, the list of topics have been made clickable.
Call - Circular economy and bioeconomy sectors.

Enabling a circular economy transition.

**HORIZON-CL6-2024-CircBio-02-1-two-stage:** Circular solutions for textile value chains through innovative sorting, recycling, and design for recycling.

**HORIZON-CL6-2024-CircBio-02-2-two-stage:** Increasing the circularity in plastics value chains

**HORIZON-CL6-2024-CircBio-02-3-two-stage:** Increasing the circularity in electronics value chains

**HORIZON-CL6-2024-CircBio-02-4-two-stage:** New circular solutions and decentralised approaches for water and wastewater management

Innovating for sustainable bio-based systems, biotechnology and the bioeconomy.

**HORIZON-CL6-2024-CircBio-02-5-two-stage:** Circular design of bio-based processes and products

**HORIZON-CL6-2024-CircBio-02-6-two-stage:** From silos to diversity – small-scale bio-based demonstration pilots.
Sotirios Grammatikos

Department of Manufacturing and Civil Engineering
Faculty of Engineering

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Relevant industry contacts
Several links in automotive, aerospace, marine, oil & gas and wind energy sectors.

Expertise
- Polymer composites
- Sustainability
- Quality control
- Circularity
- Structural health monitoring
- Recycling
- Waste management
- Sensor development
- Smart functional materials
- Repair
- Additive manufacturing
- Process monitoring

- PACKOOL – European Defence Agency [Ref: PACKOOL-TAV-16-007, PACKAGING AND COOLING ADVANCED TECHNOLOGIES – 2019-2021] (Main contact)
- imPURE, H2020, NMBP, Ref: 101016262 [Injection Moulding Repurposing for Medical Supplies enabled by Additive Manufacturing, 2020, 2022] Impure Project Logo
- AMULET, H2020, INNOSUP, Ref: 101005435 [Advanced Materials and Manufacturing Technologies united for Lightweight, 2021-2024]
- OVERLEAF, Horizon Europe, Ref: 101056818 [Novel low-pressure cryogenic liquid hydrogen storage for aviation, 2022-2025]
- PRecycling, Horizon Europe, Ref: 101058670 [Plastics Recycling from and for home appliances, toys and textile, 2022-2026]
Sotirios Grammatikos
Department of Manufacturing and Civil Engineering
Faculty of Engineering

Contact information
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+47 90577561

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Several links in automotive, aerospace, marine, oil & gas and wind energy sectors.

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Projects
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- PRecycling, Horizon Europe, Ref: 101058670 [Plastics Recycling from and for home appliances, toys and textile, 2022-2026]
HORIZON-CL6-2024-CircBio-02-3-two-stage: Increasing the circularity in electronics value chains

Sotirios Grammatikos
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Contact information
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Relevant industry contacts
Several links in automotive, aerospace, marine, oil & gas and wind energy sectors.

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Thomas Meyn
Department of Civil and Environmental Engineering
Faculty of Engineering

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Expertise
Water treatment:
Coagulation / flocculation, filtration, membranes, adsorption, oxidation
Water quality analysis

Relevant projects
TECHNEAU: Safe Drinking Water from Source to Tap
TRUST: Transitions to the Urban Water Services of Tomorrow

Relevant links outside academia
Water treatment engineering companies, Norwegian Public Road Authorities, Municipalities
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- PRecycling, Horizon Europe, Ref: 101058670 [Plastics Recycling from and for home appliances, toys and textile, 2022-2026]
Sarah Martin
Department of Natural History
Faculty of NTNU University Museum

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Relevant links
outside academia
Previously worked in private sector (Guardant Health - a cancer diagnostic start-up company in USA. Worked in technology development to detect cfDNA).

Expertise
Genomic, transcriptomic and epigenomic methods - both in terms of laboratory and bioinformatic analyses.

Experience with various plant and animal species of varying quality (e.g. ancient DNA, herbarium collections, modern plant and animal tissue, and forensic specimens)

Relevant projects
Currently involved in a NORPART funded training network (BIGTREE) for biodiversity genomics.

Currently running EverGreen project exploring the ageing process (radiocarbon dating and somatic mutation analyses) and population genomics of Welwitschia mirabilis from Namibia.

Epigenomic studies in humans and cell cultures.

Transcriptomics of neurodegeneration.

Transcriptomics of ancient maize kernels.
Here you can find potential NTNU professors and employees that are interested in collaborations on destination 4.

The following pages are sorted into the calls for the destination presented in the draft for cluster 6. To simplify your navigation among available expertise per topic, the list of topics have been made clickable.
C

Call - Clean environment and zero pollution.

Protecting drinking water and managing urban water pollution.

**HORIZON-CL6-2024-ZEROPOLLUTION-02-1-two-stage: Holistic approaches for effective monitoring of water quality in urban areas.**

Increasing environmental performances and sustainability of bio-based processes and products

**HORIZON-CL6-2024-ZEROPOLLUTION-02-2-two-stage: Innovative technologies for zero pollution, zero-waste biorefineries.**
Thomas Meyn

Department of Civil and Environmental Engineering
Faculty of Engineering

Expertise
Water treatment:
- Coagulation / flocculation,
- filtration, membranes,
- adsorption, oxidation
- Water quality analysis

Expertise specific to this call:
Integrate bioanalytical tools to trace environmental effects in the monitoring strategy

Relevant projects
- TECHNEAU: Safe Drinking Water from Source to Tap
- TRUST: Transitions to the Urban Water Services of Tomorrow

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Relevant links
- Water treatment engineering companies,
- Norwegian Public Road Authorities, Municipalities

Emre Yaksi

Department of Kavli Institute for Systems Neuroscience
Faculty of Medicine and Health Sciences

Expertise
Animal behavior, brain
- functional imaging, zebrafish,
- teleost fish, stress, feeding

Relevant projects
- Function of Chemosensory Circuits (#335561), Coordinator, ERC Starting Grant (1,5M Euros)
- Modulation of brain activity and sensory computations by habenula-dorsal raphe circuitry (#314212) Coordinator, NFR FRIPRO BIOMED research grant (12M NOK)
- Investigating the role of Gonadotropin-releasing hormone and Neuropeptide Y in modulation of brain circuits and animal behavior (#239973), Coordinator, NFR FRIPRO BIOMED young talent grant (8M NOK)
- Exploring Frontal Lobe Epilepsy, Coordinator, Helse Midt-Norge (8M NOK)

Contact information
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Relevant links
- Water treatment engineering companies,
- Norwegian Public Road Authorities, Municipalities
Astrid S. de Wijn

Department of Mechanical and Industrial Engineering
Faculty of Engineering

Expertise
Theory and modelling - tribology, surface science, transport properties, nonlinear dynamics, condensed matter

We develop models for transport of matter, energy, and momentum, and relate it to microscopic nonlinear dynamics. We currently focus on two types of systems:

1) molecules and nanoscale objects, especially in the context of friction
2) gases and liquids of various levels of complexity.

We employ computational (Molecular Dynamics and Monte-Carlo) as well as analytical methods to solve applied and fundamental problems.

We collaborate with experimental as well as theoretical researchers from a wide variety of fields, ranging from chemical engineering to mathematical physics. The materials we study the most at the moment are electrolytes, polymers, and 2d materials.
ASSOCIATED RESEARCHERS

Destination 6:

Resilient, inclusive, healthy and green rural, coastal and urban communities

Here you can find potential NTNU professors and employees that are interested in collaborations on destination 6.

The following pages are sorted into the calls for the destination presented in the draft for cluster 6. To simplify your navigation among available expertise per topic, the list of topics have been made clickable.
CCall - Resilient, inclusive, healthy and green rural, coastal and urban communities.

HORIZON-CL6-2024-COMMUNITIES-02-1-two-stage: Innovating for climate-neutral rural communities by 2050.

HORIZON-CL6-2024-COMMUNITIES-02-2-two-stage: New sustainable business and production models for farmers and rural communities