



SINTEF

— 75 years —

SINTEF Industry

Technology for a better society



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SINTEF INDUSTRY

We deliver technology for a better society with cutting-edge expertise
in sustainable production and value creation

Technology for a better society



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Our key roles in society



Research and innovation

We generate new technologies and knowledge together with our clients



Laboratories and software

We build and operate key research infrastructure



Commercialisation

We create new products and businesses



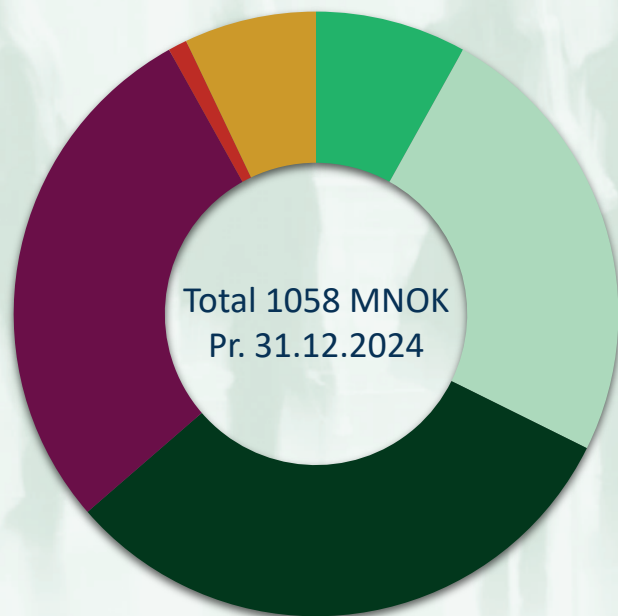
Thought leadership

We offer advice and knowledge that informs public debate and policymaking



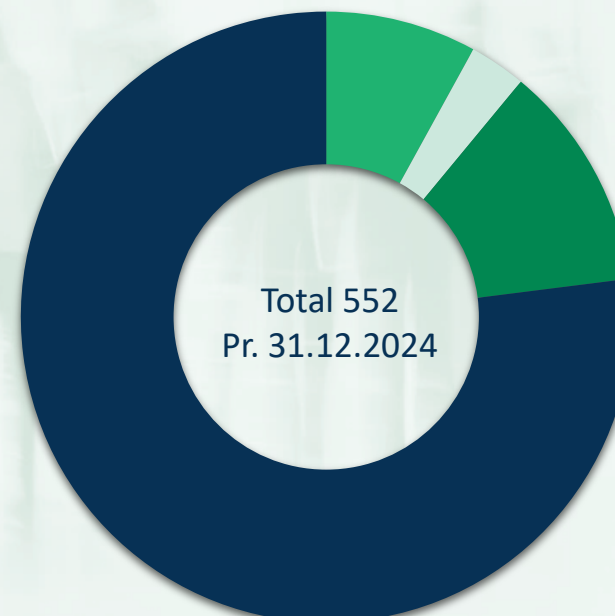
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Total 1058 MNOK
Pr. 31.12.2024

- 8 % Basic grant
- 24 % Research Council of Norway
- 31 % International EU
- 28 % Norwegian industry
- 1 % Norwegian public sector
- 7 % International clients



Total 552
Pr. 31.12.2024

- 8 % Administration
- 3 % Technical personnel
- 12 % Engineers
- 77 % Researchers

46 % of our employees are from abroad,
and from 55 different nations.



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SINTEF Industry - Proximity to customers

Bergen

Verdal
Trondheim

Oslo

Porsgrunn



SINTEF Industry is certified

- SINTEF Industry is certified by DNV GL in accordance with ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007 standards.
- SINTEF Industry shall at all times work to ensure that the organisation's results meet adequately the requirements and expectations of our clients and other stakeholders.
- Our management system ensures that SINTEF delivers products and services in accordance with specified level of quality, safeguards the environment and operates with a systematic approach to occupational health and safety.



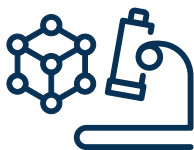


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SINTEF Industry prioritized research areas

Materials



Materials properties
and utilization



Metal
production

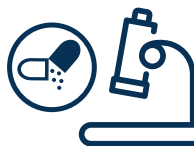


Advanced materials
and nanotechnology



Plastics and
composites

Processes



Nanomedicine



Metal
processing



Process technology



Circular economy

Technologies



Biotechnology



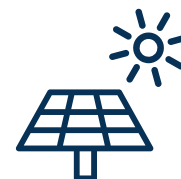
Hydrogen



Battery



Wind



Solar



CCUS



Drilling and wells



Applied
geoscience

Decision support



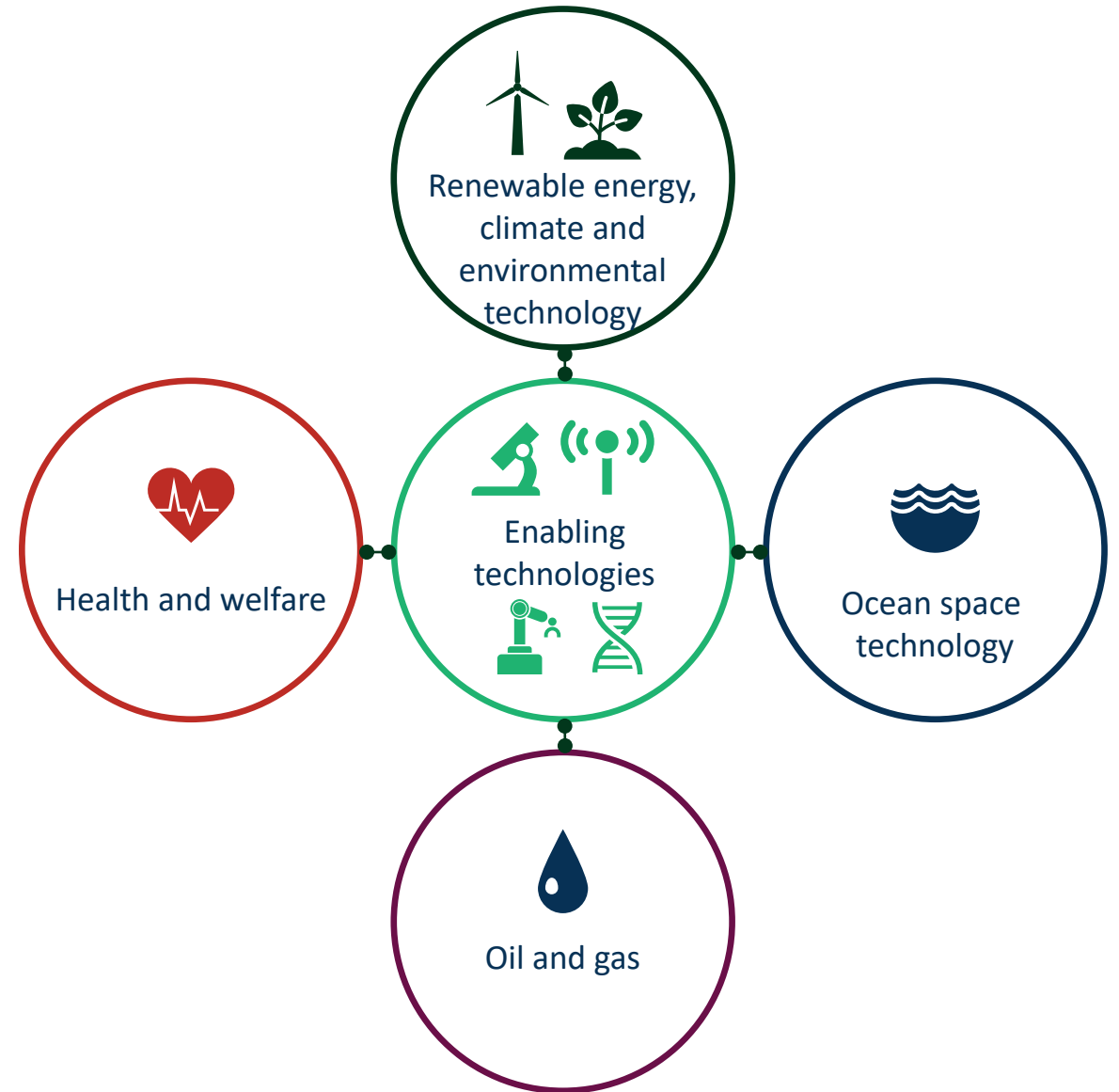
Operations research
and economics



A world-leading research institute

Our main goal: **A world-leading research institute.**

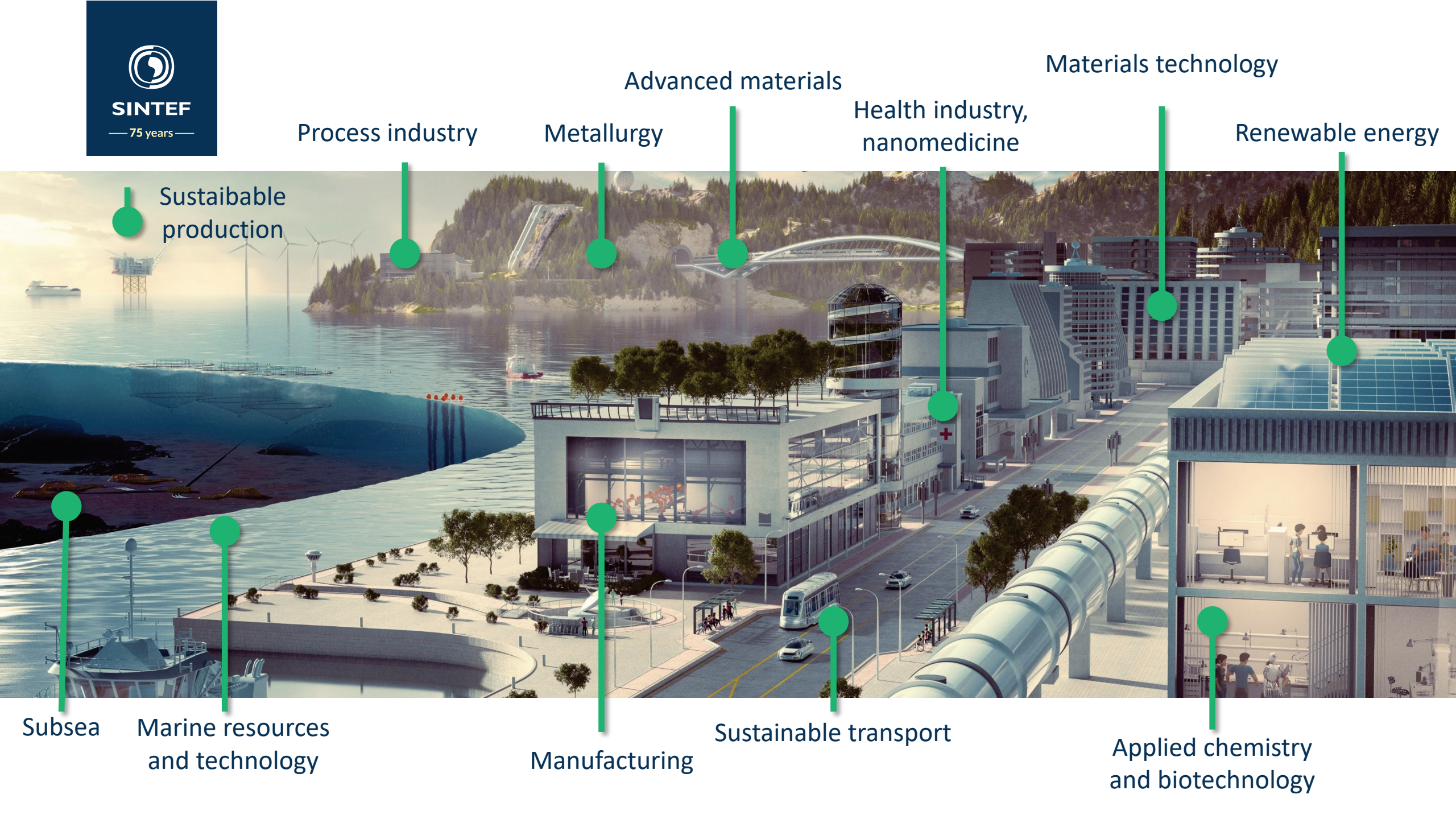
We develop solutions to some of **society's grand challenges** by being at the forefront of our strategic focus areas.





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Sustainable
production

Process industry

Metallurgy

Advanced materials

Health industry,
nanomedicine

Materials technology

Renewable energy

Subsea

Marine resources
and technology

Manufacturing

Sustainable transport

Applied chemistry
and biotechnology



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Close collaboration
creates innovation and
high professional
quality



University

Research and education



Business

Product
development
and use of research results



SINTEF

Multi-disciplinary
contract research

Norwegian Centre for Environment friendly Energy Research (CEER/FME)



- Centres for Environment-friendly Energy Research (FME) is a national research scheme.
- SINTEF lead and participate in several of these centres.
- The Centres for Environment-friendly Energy Research (FME) carry out long-term research targeted towards renewable energy, energy efficiency, CCS and social science aspects of energy research.
- The centres selected for funding must demonstrate the potential for innovation and value creation.
- Research activities are carried out in close collaboration between research groups, trade and industry, and the public administration, and key tasks include international cooperation and researcher training.
- The centres are established for a period of maximum eight years (5 + 3).

SINTEF Industry leads one FME and participate in additional ten

SFI Centre for Research-based Innovation

- A research centre is a dedicated, long-term initiative designed to strengthen and further develop elite, creative research and innovation groups or to build up research groups in strategically important areas.
- The Research Council of Norway provides long-term funding for collaboration between research-performing companies and research groups in fields of importance for innovation and value creation, and with enhance of technology transfer, internationalization and researcher training.

SINTEF Industry leads two SFI Centres, and participate in four more



The GEMINI collaboration

51 centres for strategic cooperation

- The Gemini centre is a model for strategic cooperation between research groups at NTNU, SINTEF, University of Oslo, St. Olav's Hospital and NTNU Social Research.
- Internationally, both clients and students call for outstanding research communities. It is the best communities that succeed in increasingly fierce international competition. This is why the Gemini Centre works in line with the vision of «global excellence together»
- There are a total of 51 Gemini Centres, from climate neutral cities and batteries to big data, AI and green aviation, and lots more



Samfunnsforskning

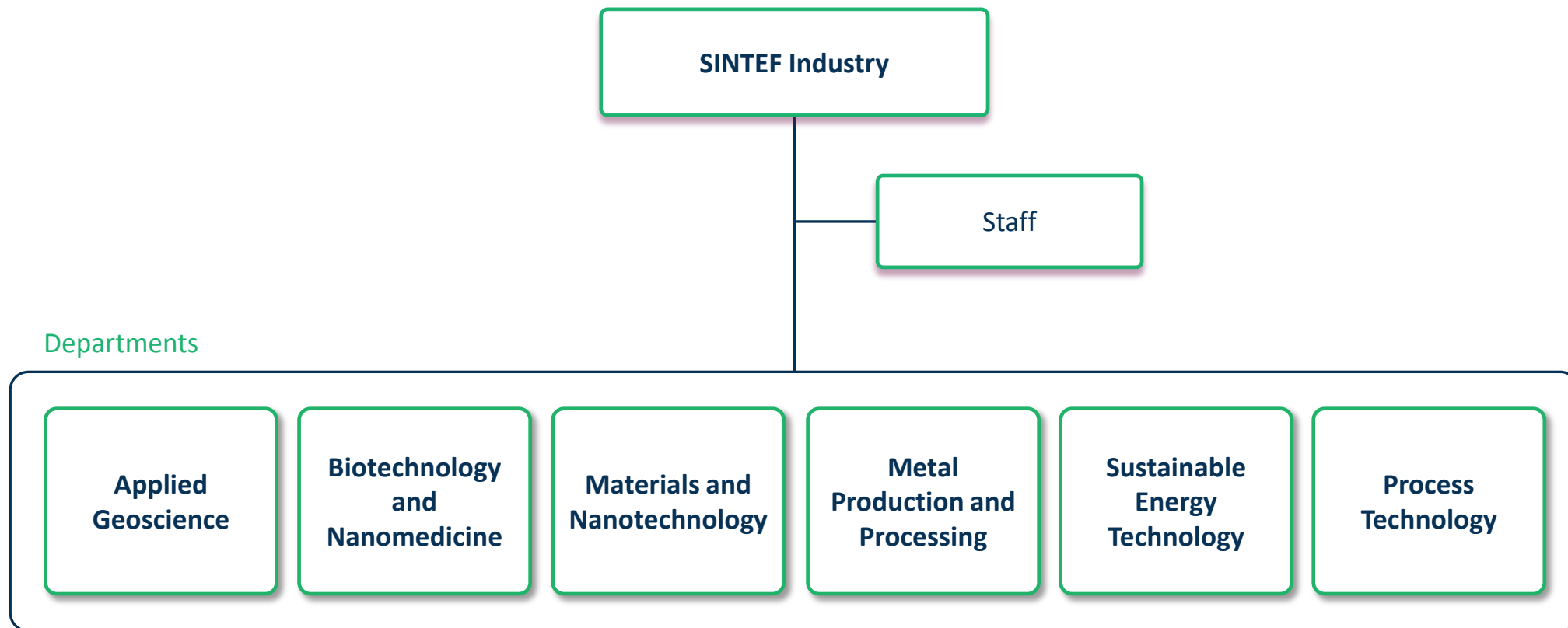




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SINTEF Industry - organisation





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Departments

**Applied
Geoscience**

**Biotechnology
and
Nanomedicine**

**Materials and
Nanotechnology**

**Metal
Production and
Processing**

**Sustainable
Energy
Technology**

**Process
Technology**

**Management
and Staff**

Research
Groups

Drilling and Well

Formation Physics

Geophysics

Reservoir and Geology

Industrial and Marine
Biotechnology

Mass Spectrometry

Medical Biotechnology

Polymer Particles and
Surface Chemistry

Sustainable
Biotechnologies and
Bioprospecting

Corrosion and
Tribology

Material Physics,
Trondheim

Materials Integrity and
Welding

Material and Structural
Mechanics

Polymer and
Composite Materials

Casting, Forming and
Recycling

Electrolysis and High
Temperature Materials

Material Processing
and Modelling

Process Metallurgy
and Raw Materials

Battery Technology

Electrochemical
Hydrogen Technologies

Materials Physics, Oslo

New Energy Solutions

Operations Research
and Economics

Solar Energy and
Materials

Thin Film and
Membrane Technology

Workshop

Chemical and
Environmental Process
Engineering

Flow Technology

Industrial Process
Design

Kinetics and Catalysis

Multiphase Flow

Process Chemistry

Sustainable
Chemistry

Technology for a better society

Biotechnology and Nanomedicine

Our expertise:

- Bioprocess development
- Microbial molecular biology
- Advanced research-based analyses
- Nanomedicine, polymer particles and surface chemistry

Applied within:

- pharmaceuticals, vaccines, biomaterials, enzymes, food, feed, chemicals and energy



Sustainable Energy Technology

Our expertise:

- Renewable energy and CO₂ capture
- Hydrogen production and fuel cells
- Battery technology and energy harvesting
- Silicon production for solar cells
- Membrane development and gas separation
- Functional materials and powder technology
- CO₂ capture, PV and H₂&FC national infrastructures



Materials and Nanotechnology

Our expertise:

- Aluminium, Silicon, Iron and steel
- Minerals and raw materials
- Polymer and composite materials
- Nanotechnology and functional materials
- Materials properties and utilization



Metal Production and Processing

Our expertise:

- Minerals and raw materials
- Metal production – process metallurgy and electrolysis
- Urban mining and recycling
- Casting and casting technology
- Metal forming and processing
- Emissions and environmental monitoring
- Process modelling





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Applied Geoscience

Our expertise:

- Exploration technologies
- Reservoir technologies
- Drilling and well
- CO₂ storage
- Increased recovery
- Geothermal energy





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Process Technology

Our expertise:

- Computational Fluid Dynamics (CFD) and Multiphase flow
- Catalysis and Kinetics
- Porous and functional materials, separation
- Powder Technology
- High Throughput Technology
- Process Analytical Technology (PAT)
- CO₂ Capture and Separation (CCS)
- Process design and Techno-Economics
- Large scale experimental testing and validation





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Laboratories



CO₂-laboratory, Tiller



Formation Physics



Multiphase Flow, Tiller



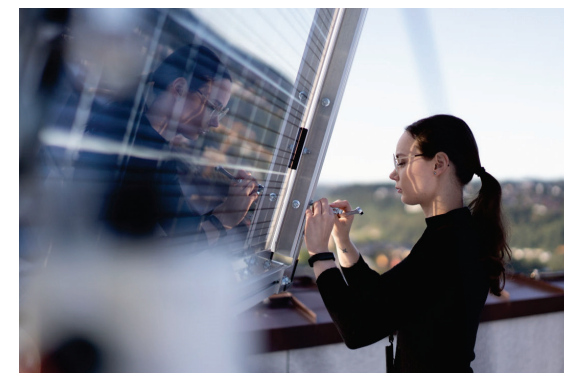
Mass spectrometry



Materials characterisation



Nanotechnology



Solar cells



Metal production



Advanced membranes



Material technology



Biotechnology



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