

SINTEF Industry









Research and innovation

We generate new technologies and knowledge together with our clients



Laboratories and software

We build and operate key research infrastructure



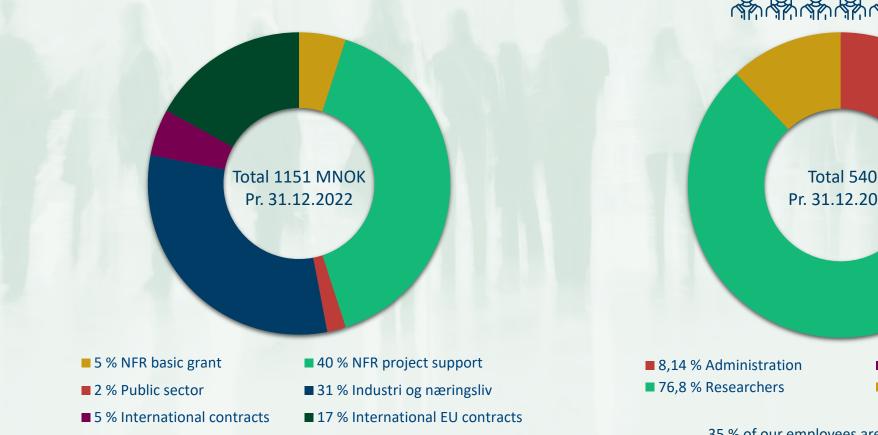


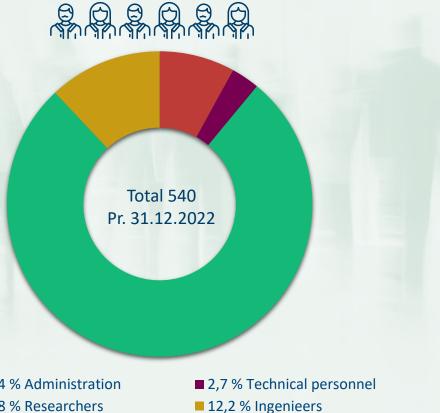
Thought leadership

We offer advice and knowledge that informs public debate and policymaking



Economy and employees



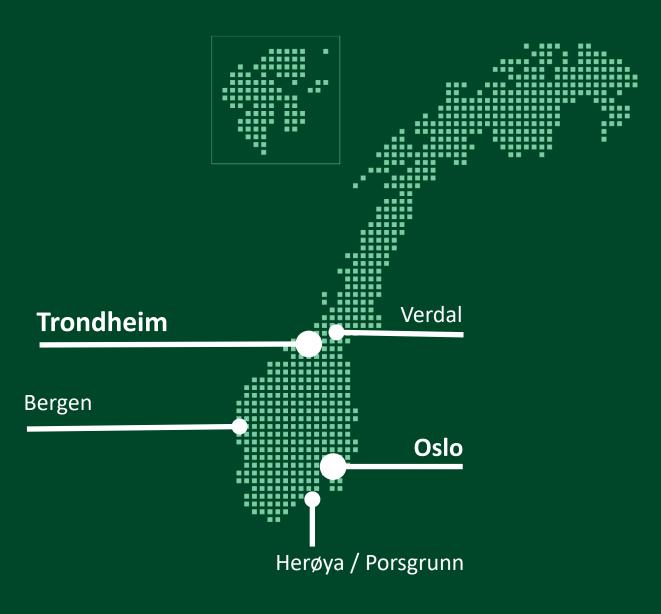


SINTEF

35 % of our employees are from abroad, and from 50 different nations.



SINTEF Industry





- 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.





SINTEF Industry prioritized research areas





Materials properties and utilization



Metal processing

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production



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Plastics and

composites

Circular economy







Applied geoscience

Processes



Nanomedicine









Process technology

Battery



Wind

Solar

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Drilling and wells



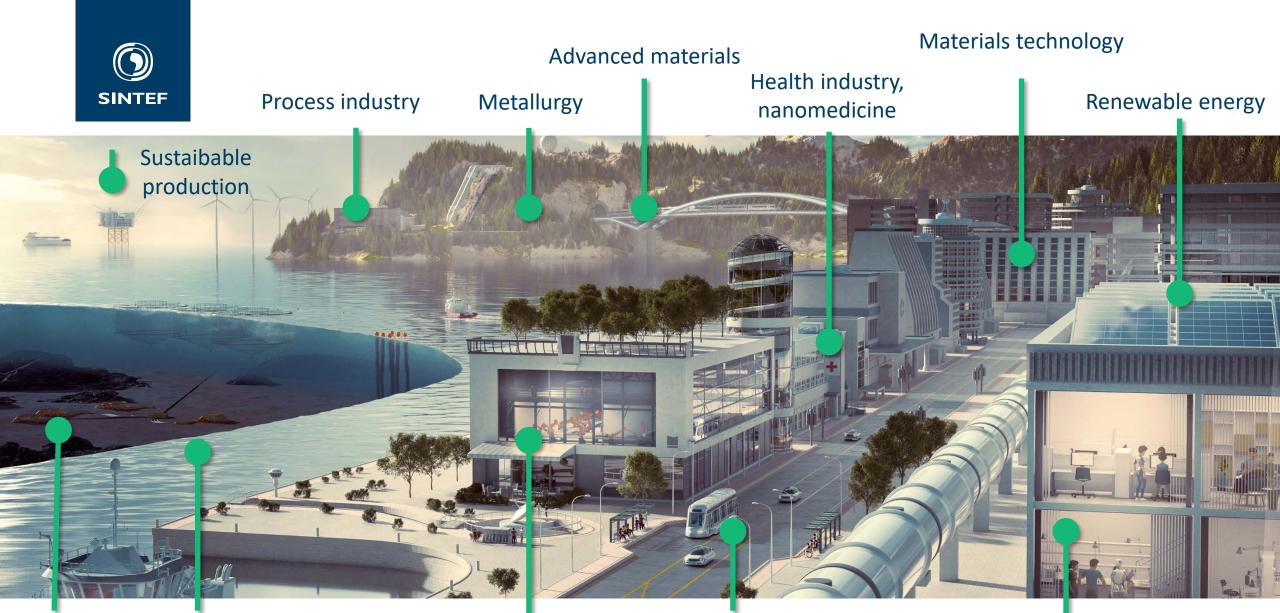


Operations research and economics



institute.



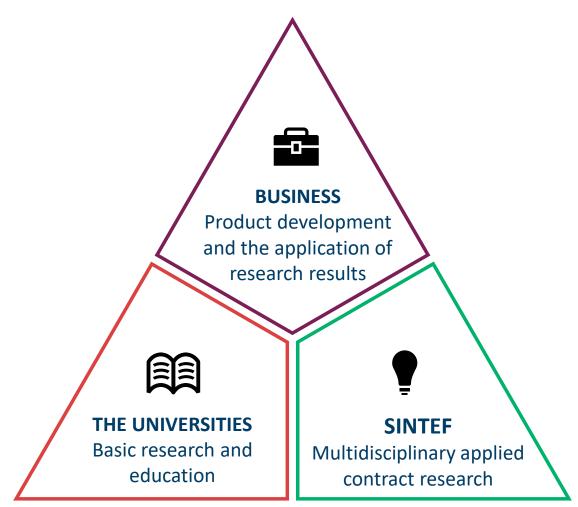


Subsea Marine resources and technology

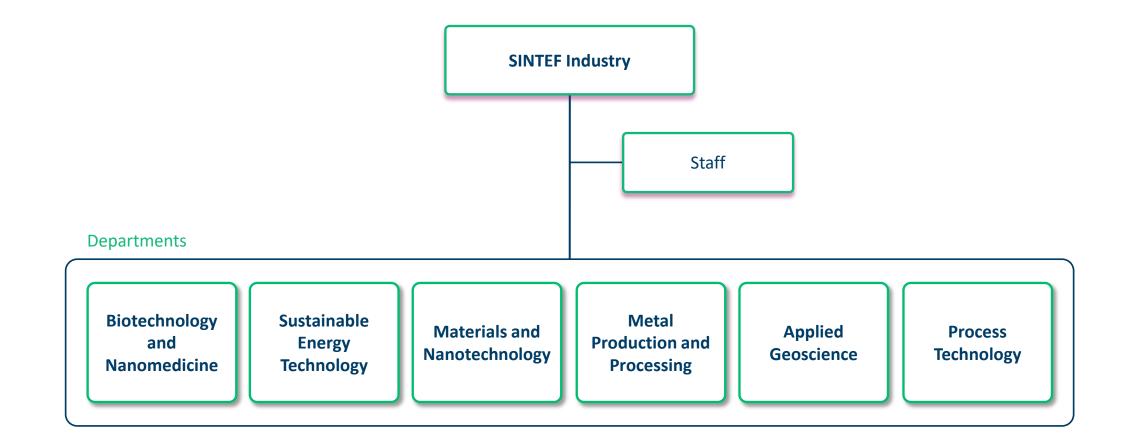
Sustainable transport Manufacturing

Applied chemistry and biotechnology

Close working relationships generate INTEF innovation and high quality

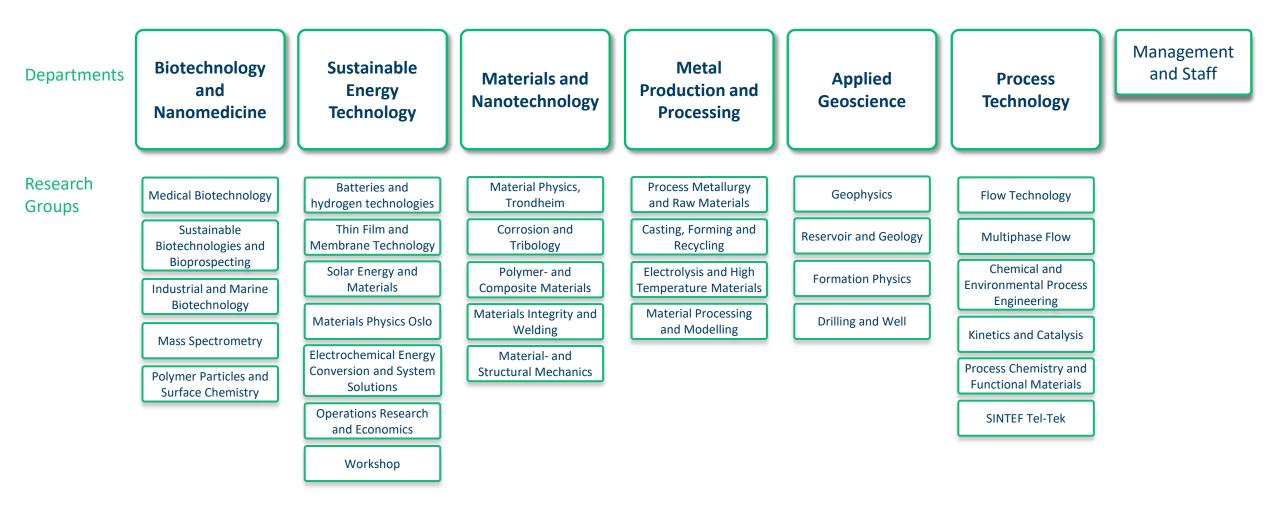








SINTEF Industry - organisation





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

Applied within:

• pharmaceutics, vaccines, biomaterials, enzymes, food, feed, chemicals and energy





Sustainable Energy Technology

- 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

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





- 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





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





- 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





Laboratories



CO2-laboratory, Tiller



Advanced membranes



Materials characterisation

Nanotechnology

Material technology



Subsurface lab.



Solar cells



Mass spectrometry



Multiphase flow, Tiller



Metal Production



Biotechnology



Gemini-Centre

- Batterier
- <u>CO₂ Impact</u>
- <u>CO₂ Enhanced Oil Recovery & Storage (CEORS)</u>
- Funksjonelle oksider for ren energiteknologi (FORENT)
- Fysikalsk metallurgi (FysMet)
- Hydrokjemisk prosessteknologi i den sirkulære økonomien (HyProS)
- Levetidsforlengelse av metalliske strukturer (Life^X)
- PV Solar Cell Materials
- Kinetikk og katalyse (KinCat)
- Marin planktonteknologi og –økologi
- Materials and energy
- Metallforming
- <u>Norwegian Laboratory for Mineral and Materials Characterisation</u> (MiMaC)
- Solceller
- Surface characterization by Emission and Scattering Spectroscopies (SUCCESS)
- Termisk energilagring
- Transmisjonselektromikroskopi (TEM)
- <u>Tribology</u>
- Økonomisk analyse og modellering

Centres for Research-based Innovation (SFI)

- DrillWell (2010-2019)
- Metal Production (2015-2024)
- Centre for Advanced Structural Analysis (CASA) (2015-2024)
- SFI Manufacturing (2015-2024)
- Industrial Catalysis Science and Innovation (iCSI) (2015-2024)
- Center for Innovative Ultrasound Solutions (2015-2024)
- SFI Industrial Biotechnology (2020-2028)
- <u>SFI SWIPA</u> (2020-2028)
- SFI PhysMet (2020-2028)

Centres for Environment-friendly Energy Research (FME)

- Bio4Fuels (2016-2024)
- <u>HighEFF</u> (2016-2024)
- <u>NCCS</u> (2016-2024)
- <u>MoZEES</u> (2017-2024)
- SuSolTech (2017-2025)
- <u>HYDROGENi</u> (2022-2030)

Other Centre

Low Emission (2019-2026)



Technology for a better society