Faculty of Technology — Sustainable solutions for the people

The Faculty of Technology at the University of Oulu is one of the leading experts in sustainable utilization of natural resources. Some of our strengths include biomass, mineral and steel processing and knowledge about the application of materials, comprehensive production chains, minimising environmental effects and economic perspectives. Our aim is to be among the world’s leading actors in research, sustainable solutions and education on how people can use technology to control climate change and promote sustainable development and wellbeing.

RESEARCH
We participate in the global, national and regional enhancement of wellbeing through our research communities.

- Steel research
- Circular economy
- Bioeconomy
- Automation and digitalisation
- The Environment and clean technologies
- Design and productisation
- Arctic construction and mining.

Our current emerging research fields that aim to answer future challenges include circular and bioeconomy, energy and material research and mining. Our new focus areas strengthen the quality of research, societal impact and the visibility of expertise.

EDUCATION
We represent seven fields of education and train experts in architecture, engineering and natural sciences. We also provide Open University education. We develop our studies with multiform learning, online courses and modular study structures. We invest in quality and promote smooth studying progress and on-time graduation. We increase educational co-operation between higher education institutions.

COMMUNITY
We have skillful personnel, the personnel structure is balanced and our recruitment processes support equality. We develop our expertise through top-level recruitments and by investing in good leadership. We support researcher exchanges of young doctors and doctoral students in international research environments. We have a high-quality infrastructure that is appealing to students and researchers.

KEY ACTIONS
1. We will strengthen international co-operation with leading countries and institutions in sustainable production and material expertise.
2. We will establish competence-based hubs for the fields of circular and bioeconomy as well as energy and automation, and we will actively participate in similar openings.
3. We will provide research data that supports sustainability and decision-making in questions related to water and the climate, constructed environments and sustainable production processes. We will also aim to increase the funding for international and basic research in these fields.
4. We will create an even better environment for students and employees to become leading experts with strong skills in sustainable development in their field.
5. We will anticipate the changes needed in our society and economic structure and develop a diverse selection of options for continuous learning to compliment our degree programmes.
6. We will further emphasise the importance of education and aim for a strong sense of community in education, studying and learning.

12 RESEARCH UNITS
- Chemical Process Engineering
- Environmental and Chemical Engineering
- Fibre and Particle Engineering
- Industrial Engineering and Management
- Intelligent Machines and Systems
- Materials and Mechanical Engineering
- Oulu Mining School
- Oulu School of Architecture
- Process Metallurgy
- Structures and Construction Technology
- Sustainable Chemistry
- Water Resources, Energy and Environmental Engineering

9 DEGREE PROGRAMMES
- Architecture
- Chemistry
- Civil and Construction Engineering
- Environmental Engineering
- Geosciences
- Industrial Engineering and Management
- Mechanical Engineering
- Mining Engineering and Mineral Processing
- Process Engineering

400 EMPLOYEES  2 357 DEGREE STUDENTS  197 DOCTORAL STUDENTS