

# Strategy for the Department of Mathematical Sciences at NTNU 2019-2025

## Vision

To be a knowledge hub without limits

The last part, *without limits*, is meant to have a double meaning:

- No geographical limits (an international reach)
- No limits to the importance or use of mathematics (both within mathematics itself and for interdisciplinary applications)

## Our values

IMF holds itself to NTNUs overarching values: creative, critical, constructive, respectful

## Education and learning environment

- Maintain and develop the department's role as a national focal point for foundational mathematics teaching to engineering students
- Maintain and develop the department's leading role in foundational and continuing education for mathematics teachers at upper secondary schools
- Be at the forefront of new trends within foundational teaching, and be an active contributor to the development of the technology education of the future
- Raise the quality and relevance of our own study programmes
- Improve the structure and content of natural science with teacher education and ensure it is rooted in all relevant subject areas
- Increase the visibility, recruiting and reputation of our own study programmes, across all specialisations in mathematics
- "One department" – further strengthening the inter-departmental collaboration
- Establish a good and sustainable pre-university study offering for engineering studies
- Modernise and further develop our online studies
- Develop a good and sustainable balance between course offerings and resource use
- Ensure continued foundational mathematics teaching in Norwegian
- Ensure a good study environment for all of our students, particularly ensuring a positive first impression for new students at NTNU

## Research and Researcher Training

- Be the leading research institution in mathematics in Norway
- Conduct research across both theoretical mathematics and applied research
- Develop more world-leading research activities
- Support curiosity-driven research
- Support the digital transformation taking place in society with mathematical and statistical insight
- Support interdisciplinary research within the faculty's strategic research areas
- Increase participation and results in quality-based research competitions, particularly in the EU
- Support networking and collaboration both nationally and internationally
- Facilitate international researcher mobility
- Focus on publication quality

- Develop candidates and applications to the ERC with the goal of at least one project granted in the period
- Conduct research on our own teaching

**Other important topics**

- Communicate the importance of mathematics in society
- Increase our visibility as a key provider of mathematical knowledge
- Improve the information on career possibilities in the mathematical sciences
- Offer all students and staff good workspaces
- Prioritise well-being and a good working environment for all students and staff
- Ensure a good reputation for all the department's activities
- Facilitate good participation opportunities for all staff
- Develop sufficient leadership capacity and sufficient administrative and technical support
- Ensure good financial management and utilisation of resources
- Ensure recruitment processes that support long-term goals
- Improve the gender balance, with the goal of 30 % women in all roles the end of the period.