



**TAL
TECH**

STRATEGIC PLAN
OF TALLINN UNIVERSITY
OF TECHNOLOGY 2021–2025



INNOVATIVE AND ENTREPRENEURIAL UNIVERSITY

The mission of Tallinn University of Technology is to be a leading provider of engineering and economics education, as well as a leader in the fields of engineering sciences and smart technologies. As the only university of technology in Estonia we are the most innovative and entrepreneurial university. Tallinn University of Technology is a research university, where research, teaching and learning, innovation as well as contribution to society are equally valued, balanced and interlinked.

Our slogan *Mente et manu* reflects the values of the university community, attaching equal importance to critical and creative thinking, entrepreneurial and practical actions as well as openness, reliability and cooperation.

We wish to be noticed, to stand out and be on par with the leading universities of technology in Europe via our smart solutions to create a digital and climate neutral future.

WE TEACH HOW TO SOLVE REAL WORLD PROBLEMS

Our graduates are able to solve complex real world problems with an evidence based mindset, practical engineering skills, good self-management and cooperation skills as well as an entrepreneurial drive. They are prepared to take on responsibility for the development of the Estonian economy whilst being in high demand on the international labour market. To this end we develop teaching and learning at Tallinn University of Technology in collaboration with stakeholders so that our graduates leave with a modern high quality specialty education based on natural and social sciences. Our alumni adopt the values of the university, and through them the ideas and knowledge of our best researchers impact the economy and society. We shall raise the quality and effectiveness of doctoral studies while taking into account the needs of the Estonian economy. Project and problem based learning constitute an integral part of all our curricula; successful entrepreneurs, managers and leading experts contribute to the students' education. We apply innovative continuous and life-long learning techniques taking into account the needs of learners and the labour market. Our alumni and present students are our biggest assets and we welcome them back to the university to share their experience, continue their education, and collaborate with us.

GOAL

- Entrepreneurial graduates contribute to making the Estonian economy smart and sustainable.
- Teaching and learning at Tallinn University of Technology is based on research.
- Teaching and learning is effective at all levels of higher education while taking into account the needs of the economy and society.
- We increase the revenue base for teaching and learning.





GOAL

- We raise the bar for research to the level of leading European universities of technology.
- We give more priority to leading researchers among academic staff.
- We increase competition-based funding.

HIGH QUALITY RESEARCH UNDERPINS TEACHING AND INNOVATION

High quality research is conducted at Tallinn University of Technology, giving rise to applications, teaching and learning as well as research-intensive innovation.

Our research outcomes are published in high quality journals, and theses defended at the university are mostly based on said research. We support sustainable, responsible and high-level research groups which make a significant contribution to teaching and serving the society. To that end, we shall continue to develop an intra-university financing model that will mitigate risks for ambitious and entrepreneurial research groups and foster cooperation between research groups in key research fields for the university. We shall increase competition-based funding at the university and provide assistance to research groups applying for funding in key areas for the university.

We shall enhance our career model to support capable, entrepreneurial and result-driven members of our academic community, who contribute to research, teaching and learning as well as serving society. We support outstanding junior researchers in order to ensure that they can quickly become autonomous and be supported as members of our university community.

Research and education at Tallinn University of Technology are open. Teaching materials and research results are accessible to business partners, secondary school pupils and the public at large.

WE CONTRIBUTE TO THE ECONOMY AND SOCIETY

Tallinn University of Technology is a key driver of the Estonian economy. We shall enhance our international standing by cooperating with top-ranked universities and research-intensive companies throughout the world. To that end we shall lay the foundations for the most impactful centre for engineering and economics education in Europe in collaboration with EuroTeQ/EuroTech universities. We shall invest more in creating intellectual property. We shall protect intellectual property created on behalf of the university where it helps us to apply our research achievements for the creation of a better society. The university gives rise to spin-off enterprises of international repute. We shall become more closely integrated in the European research area and shall take part in shaping it. We shall be pioneers in achieving a climate neutral digital society, we shall contribute to Estonian national security, health technologies and energy security. We shall safeguard the Estonian language and culture, first and foremost by providing higher education in Estonian, launching domestic spin-offs and start-ups and advancing the Estonian language research space.

Tallinn University of Technology is visible in Estonia and internationally. We encourage the academic university community to interact with the general public, to be able to explain our scientific accomplishments to the public at large as well as raise interest in research and engineering education.

GOAL

- We extend cooperation with businesses.
- We contribute to the creation and application of intellectual property. We launch spin-offs and start-ups.
- We increase the impact and visibility of the university within Estonia and internationally.



SUSTAINABLE AND INCLUSIVE UNIVERSITY

The management of the university is inclusive and value-based. Management decisions at every level direct the development of the university towards high quality teaching, learning and research.

The university community is tight-knit, family friendly and fosters comprehensive self-fulfilment of its members while appreciating diversity as the basis for academic freedom of thought and as the driving force for ground-breaking research and innovation. Strong academic culture and a research based approach to problem solving act as a breeding ground for new ideas and practical thinking that leads to quick solutions. We value the history of our university and those members of the university community who have developed and upheld engineering and technology education in Estonia. We act as a bridge across different disciplines and academic generations and we know how to make the contribution of our alumni work for the benefit of the university. New members of our academic community from outside Estonia bring international experience while learning the Estonian language and traditions.

The university runs seamless and cost-efficient support services in order to support and better integrate high quality studies, research



and innovation. Support services are developed in collaboration with the university's academic community, assessing each other's input and understanding expectations. We develop support services to be user-centred and apply the single point of entry principle.

University environments, both physical and virtual, are convenient and sustainable. They attract top performers to work and study at the university, and facilitate interactions with former members of the university community, prospective students and businesses. Tallinn University of Technology stands out for climate smartness and energy efficiency, being the testing lab for cities of the future. The university is a whole regardless of its many facility locations. We shall continue with activities started within the TalTechDigital initiative, with an aim to make the university's campuses ones of the smartest.

GOAL

- We develop a smart and environment-friendly university.
- Cooperation, inclusion, and peer support, as well as strong academic courtesy and culture, are valued in our organization.
- We shall develop a long-term strategy for maintaining state of the art infrastructure for teaching, learning and research.