EuroTeQ Engineering University
Taking responsibility for the next generation
European engineering education of the future

Marita Mau, TUM Global & Alumni Office
About us

Open education beyond the university

Promoting Change

Offers to the TUM-family
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About us
EuroTech Universities
European Universities Initiative

With its European Universities Initiative, the European Commission aims at fostering excellence, innovation and inclusion in higher education across Europe, accelerating the transformation of higher education institutions into the universities of the future with structural, systemic and sustainable impact.

Building on the Bologna Process, piloting a co-envisioned long-term education strategy, focused on sustainability, excellence and European values in higher education.

Innovative pedagogies with challenged-based transdisciplinary approach to foster entrepreneurial mind sets and civic engagement.

Student-centred curricula jointly delivered across inter-university campuses, where diverse student bodies can build their own programmes and experience mobility at all levels.

A challenge-based approach according to which students, academics and external partners can cooperate in inter-disciplinary teams to tackle the biggest issues facing Europe today.

Up to € 5 million from Erasmus+
Up to € 2 million from Horizon 2020
€ 750.000 from DAAD
Local roots with an impact throughout Europe

Six strong Universities of Technology and 45 associated partners together form the EuroTeQ Engineering University.

Emerging from the EuroTech Universities Alliance, taking on board two excellent partners TalTech from Estonia and CTU from the Czech Republic.

Anchored in diverse geographical and cultural contexts, each partner with their corresponding eco-system provides added value and a competitive advantage to the EuroTeQ cooperation.

EPFL in Switzerland and Technion in Israel contribute to these efforts.

The goal is to ensure a strong integrative link with different cultures and traditions of engineering education across Europe.
Co-Creation with industry & society

11 associated partners in Munich
Our Mission

Societal developments of recent years call for strong University Alliances to make the Knowledge Square of Education, Research, Innovation and Service to Society a reality.

As six leading Universities of Science and Technology, we are equipped to introduce a paradigm shift in the engineering education of the future, aspiring responsible value co-creation in technology.

Our ambition is to create a real impact Europe-wide, enabling other universities and stakeholders to follow our example, fostering technological progress and societal cohesion.

The meaning “Engineering University” is twofold: To provide excellent education to future engineers and to engineer the University of the Future, as a role model for the European Higher Education Area and beyond.
Our Vision

A modern engineering education must provide students not only with in-depth technical knowledge but also with an extended educational horizon, an entrepreneurial mindset and socio-political sensitivity.
Open education beyond the university
Building the EuroTeQ Campus

A holistic approach to integrate the campuses and educational systems of the six academic project partners towards a platform for open education, delivering high-quality research-led teaching to a peer group of over 115,000 students.

Our graduates will have intercultural and multilingual competences, an entrepreneurial mindset, think and act responsibly and are ready to lead a competitive Europe into the future.

We will jointly develop a EuroTeQ Campus for engineering education by

- Establishing a joint course catalogue and joint course formats
- Individual study paths including Micro-credentials, the label EuroTeQ Professional, and a EuroTeQ Honours Degree
- Enhancing mobility for students and staff, in physical and virtual formats
- Specifically tailored multilingual digital learning materials
- Stakeholders from industry and the public sector integrated into the teaching formats at all locations
- Demonstrable impulses for entrepreneurial spirit
Our EuroTeQ Campus will be open to students enrolled at the partner institutions, to vocational trainees in technical careers as well as engineers in the workforce, promoting lifelong learning.

Together with stakeholders from industry, trade associations and various areas of society, we will explore the great challenges of the 21st century and to jointly formulate solution strategies.
Open education beyond the university

Building the EuroTeQ Campus

The interuniversity EuroTeQ Campus allows students, as well as vocational and lifelong learners to choose from the courses of six partners universities and participate in the EuroTeQ Colliders.

Individual learning paths enrich traditional study and career paths and can lead to a EuroTeQ Honours degree as well as the EuroTeQ Professional label.

Students, Vocational & Professional Learners can take Virtual Courses of all partners, complete Micro-credentials and participate in the Colliders.
Running the EuroTeQ Collider is at the heart of our project.

- Bringing together all stakeholders in education, society and industry, identifying and tackling the grand challenges of the 21st century through a series of co-created, challenge-based projects and competitions.
- A selection of the best projects will be presented in a major high-level event, the EuroTeQaThon.
- The success of the EuroTeQ Collider is ensured by the diversity of our partners’ insights, which perfectly reflect Europe’s zeitgeist.
- The EuroTeQ Collider is the interconnected and transformative approach that allows the EuroTeQ Engineering University to reshape itself and keep up with current developments.
- We will gain comprehensive experience with the various qualification structures in Europe and learn about the needs of the younger generation.
- These findings will then be integrated in the design of teaching at all the partner universities.
Promoting Change
Co-creation and social cohesion

EuroTeQ Professional

The EuroTeQ Professional will translate gained insights into future-proof technical education and contribute to the European Qualification Framework, to allow for more inter-European mobility among students and professionals in technical fields.

The EuroTeQ Professional is a key feature to implement the long-term vision, shedding light on the differences in the national systems and bridging gaps between engineering cultures in Europe.

EuroTeQ Connector

The EuroTeQ Connector will scientifically analyse, publish and document the observations in order to further develop the EuroTeQ Engineering University. It will shed light on previously hidden differences that become visible due to new types of interactions.

Attitude and problem-consciousness of the young generation will be its focus, as well as the different realisations of the European Qualifications Framework, different approaches for vocational learning and continuing education and different solutions for supporting start-ups and for the interaction with local and global industries.

The EuroTeQ approach to quality assurance includes a broad societal perspective, actively assessing the interaction with different societal actors and the impact of the paradigm change in education.
Co-creation and societal cohesion

Boosting the EHEA through enhanced quality, openness and policy dialogue

The EuroTeQ Connector gives a considerable reflection on a range of social, cultural and political issues that affect European society at a certain stage in time. Knowledge that is crucial in shaping European policies and programmes in the future.

Universities as servants of the local community

EuroTeQ partners host events to serve the local community. Open-doors policy, public lectures, science fairs, showcasing their work as institution of education, research and innovation that actively engage the public.

Serving the current, the past and the future generation of learners

EuroTeQ partners join forces to nurture a shared alumni network and offer formats of continuing education to lifelong learners, co-created with industry.
Promoting Change

Reaching Out

Raising awareness
for evolving challenges in society, in technology and in their interplay, and for the resulting necessary changes to transform engineering education.

Leading by example
we will deliver a successful blueprint for a transformational change in the approach to university education for the future.

Lobbying for change
to be first-movers, to push the boundaries of what is possible, to identify the obstacles inherent in existing regulations, and address them towards decision makers. To improve the necessary framework conditions across Europe, to pave the way for other institutions to follow our example.

Dare to make it fun!
We encourage everyone to join us!
Share your ideas in a stimulating atmosphere of change.
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Offers for the TUM-family
Engineer the future with us!

Opportunities

- Enriching the offers for our students
- Synergies with our TUM Agenda 2030
- New options for innovative teaching and project-based learning, supported with seed funding
- Contact to industry and exchange with professionals
- Enhanced physical & virtual mobility options
- Insights into other European societies and ecosystems from a technological perspective
- Facilitating research cooperation among the partner universities in the long term perspective
- Strengthening Europe as a technology hub

Challenges

- Identifying the most suitable people and bring them together
- Align on competence profiles and the composition of Micro-Credentials and the EuroTeQ Honours degree
- Invest in information systems interoperability
- Integration into curricula vs. extracurricular approaches
- Legal issues for virtual mobility, connectivity of campus management systems, seamless mobility and automated recognition
The goal is to create an unprecedented integration of Universities of Technology, benefiting from the different cultures and traditions of engineering education across Europe and leading to EuroTeQ Campus.

Students and staff members shall benefit from these actions and engage in vivid virtual and physical staff mobilities and best practice exchanges across Europe.

First virtual courses open autumn 2021. Staff exchanges are possible at all times through the Erasmus+ Programme.
Seed Funding for innovative formats
Ausschreibung 2021

Der EuroTeQ Teaching Fund unterstützt Lehrende der Technischen Universität München bei der Realisierung von Projekten digitaler Lehre in Kooperation mit europäischen Partnern.

Each project can receive up to 15,000€ for student assistants, software licenses, equipment, travel costs, video production.


https://www.international.tum.de/euroteq/
EuroTeQ Engineering University
Offers for the TUM-family

Intercultural competences for working in multicultural teams

Join our online workshops in the Summer Semester 2021

Workshops for TUM & EuroTeQ students
Sommer Semester 2021

The course is designed for students in engineering-related programs, but is open to all TUM students who see themselves working in a European context later on.

Studierende können sich noch bis zum 30. April 2021 beim TUM Sprachenzentrum registrieren.

https://www.international.tum.de/euroteq/
The future holds opportunities and challenges for engineers in Europe: digitalization, climate change and the need for sustainable innovation. But how can we ensure that today’s students and professionals are equipped for the ever changing needs of the European job market and our society?

Together with stakeholders from inside and outside the university, we will discuss how the EuroTeQ Engineering University can initiate co-creative processes that ensure the alignment between challenges and skills for a prosperous Europe.

www.international.tum.de/tumglobalweek/
Sprechen Sie uns an!

Sollten Sie im Nachgang zu unserer Projektvorstellung an der Mitarbeit im Projekt interessiert sein, sollten Sie Ideen haben, die Sie mit uns teilen möchten, dann nehmen Sie bitte direkt mit uns Kontakt auf. Wir freuen uns auf den Austausch mit Ihnen!