



TALLINN UNIVERSITY OF
TECHNOLOGY



Estonia:



Population: 1.340 million

E-stonia:

- Birth of Skype
- e-elections
- 4G wifi
- digital prescriptions
- e-banking
- e-parking
- e-tax declaration

Incredible nature:

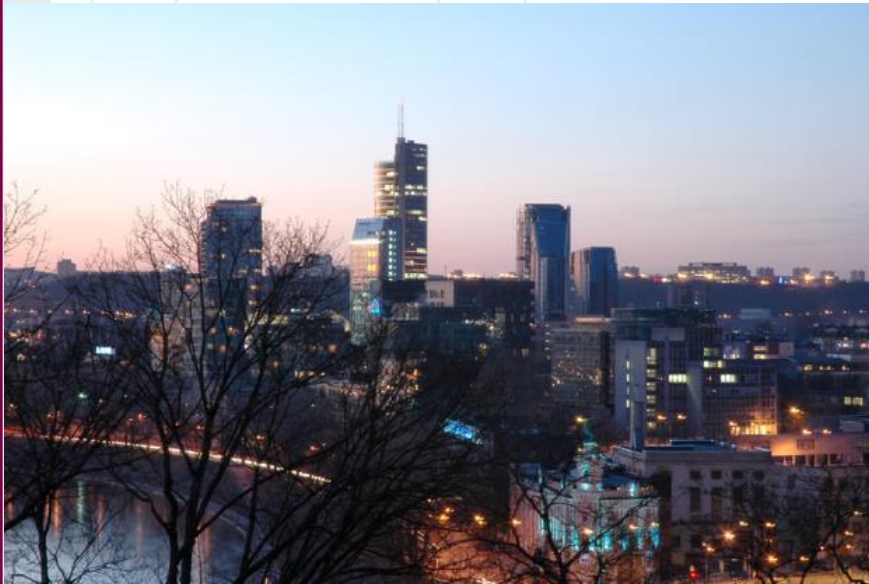
- Cleanest air in the world (WHO 2013)
- Forests cover 55% of the country
- Thousand of islands and lakes





Tallinn:

- Capital
- 428,778 inhabitants (2014)
- International community
- Hottest startup capital (Wired magazine 2011)
- Easy access to other EU countries
- Home of NATO Cooperative Cyber Defence Centre of Excellence
- Best EU Country/city to stay during your studies (ESN survey 2010)





Tallinn University of Technology (1918)

- Public university
- Only technical university in Estonia
- Biggest international university in Estonia
- Study programmes in English
- Modern facilities and labs, free wifi
- Innovation and Business Centre Mektory
- Campus university with newly renovated dormitories





Mission

Tallinn University of Technology (TUT) creates and mediates values that ensure **Estonia's development in the globalizing world.**

Committed to its mission, the University fosters research, academic and professional higher education and technical culture.

TUT promotes societal development and creates synergy between:

- engineering
- technology
- exact sciences
- natural sciences
- health sciences
- social sciences



Vision 2015

Tallinn University of Technology will be globally recognized as a **research university** and a motor of economic development and innovation in Tallinn and nationwide.

Goal for 2015:

proportion of foreign teaching and research staff: 10%
proportion of foreign master's students: 8%
proportion of foreign doctoral students: 10%
competition to fill professors' positions: 1.5.



Among best campuses all over the world (European Rectors Club, 2014)



TUT in numbers (2014)

- 8 faculties, 5 colleges
- 35 departments and 112 chairs
- 13 faculty research centers
- 21 labs
- 10 affiliated institutions, including 5 regional colleges
- 3 languages: Estonian, Russian and English
- 22 study programmes in English
- 60 different student organizations





People in TUT (2014)

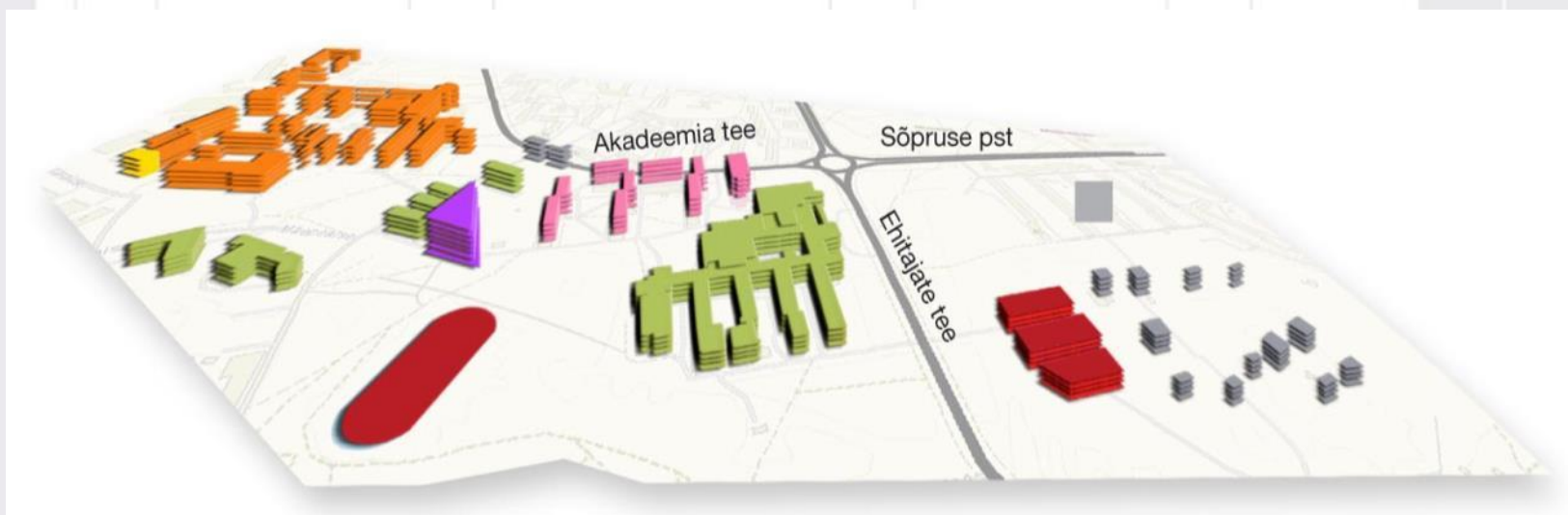
- 13,200 students, about 1200 foreign students (8,86%)
- 2100 degrees annually
- 2000 employees, about 1100 are academic staff
- 140 foreign staff members
- 48 is the average age of the employees
- 45 Honorary Doctors
- 60,000 alumni members





Tallinn University of Technology – campus university (2014)

Campus area: 55.5 ha, 72 buildings



TEHNOPOL

TEHNOPOL BUSINESS INCUBATOR

SPORTS BUILDINGS

TALLINN UNIVERSITY OF TECHNOLOGY

UNIVERSITY DORMITORIES

IT COLLEGE

New library building from 2007





Organization chart (2014)





Faculties and colleges

8 faculties:

- Chemistry and Materials Technology
- Civil Engineering
- Social Sciences
- Information Technology
- Mechanical Engineering
- Power Engineering
- Faculty of Science
- Tallinn School of Economics and Business Administration

5 colleges:

Kuressaare, Tartu, Tallinn, Virumaa and Estonian Maritime Academy

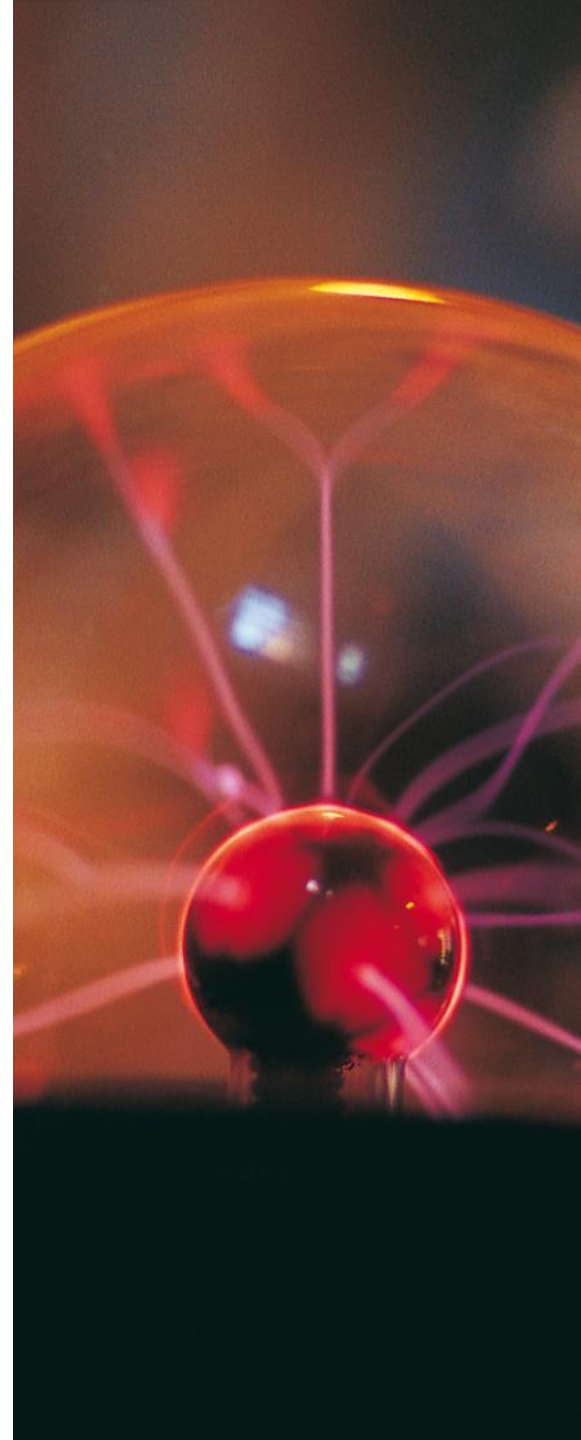




Priority R&D areas (2005-2015)

TUT conducts fundamental research in a variety of fields:

- Civil Engineering
- Power Engineering
- Information and Communication Technology
- Chemistry and Biotechnology
- Environment
- Mathematics and Physics
- Materials Science and Technology
- Social Sciences (incl. Economics)
- Health
- Production technologies, Mechanical and Instrumental Engineering







R&D centers of excellence

(in collaboration with other universities)

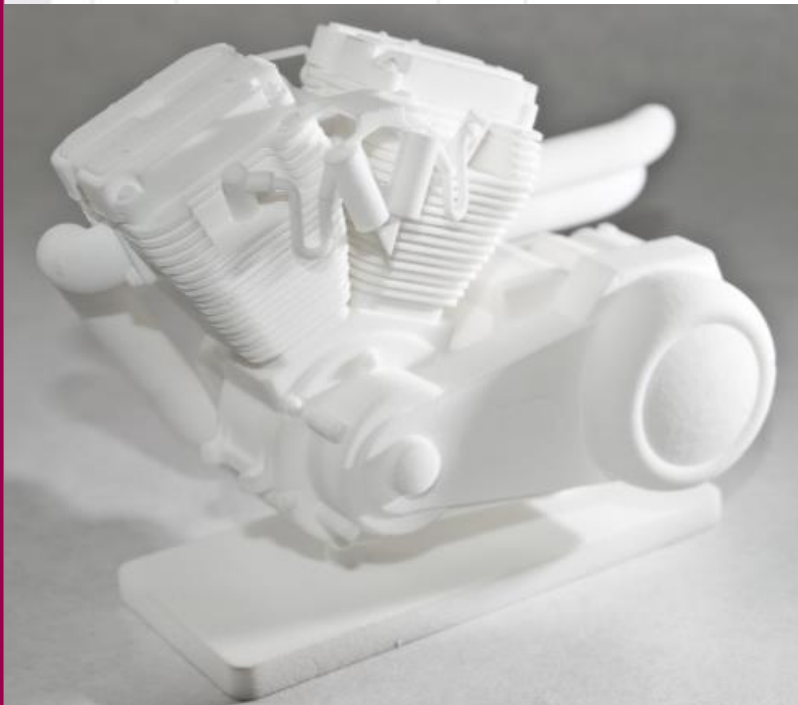
- Chemical Biology
- Computer Science
- Environmental Adaptation
- High-technology Materials for Sustainable Development
- Integrated Electronic Systems and Biomedical Engineering
- Mesosystems - Theory and Applications
- Nonlinear Studies



Competence centers

(in collaboration with enterprises and other universities)

- Cancer Research
- Electronics, Info- and Communication Technologies
- Food and Fermentation Technologies
- Innovative Manufacturing Engineering Systems
- Software Technology and Applications





Doctoral schools

(in collaboration with other universities)

- Information and communication technologies
- Energetics and geotechnology
- Biomedicine and biotechnology
- Civil engineering and architecture
- Earth sciences and ecology
- Economics and innovation
- Functional materials and technologies
- Mathematics and statistics





Study programmes at TUT (2014)

Academic programmes (faculties)

BACHELOR STUDIES	BACHELOR + MASTER INTEGRATED STUDIES	MASTER STUDIES	DOCTORAL (PhD) STUDIES
<i>3 years</i>	<i>5 years</i>	<i>2 years</i>	<i>4 years</i>
<i>180 ECTS cp</i>	<i>300 ECTS cp</i>	<i>120 ECTS cp</i>	<i>240 ECTS cp</i>

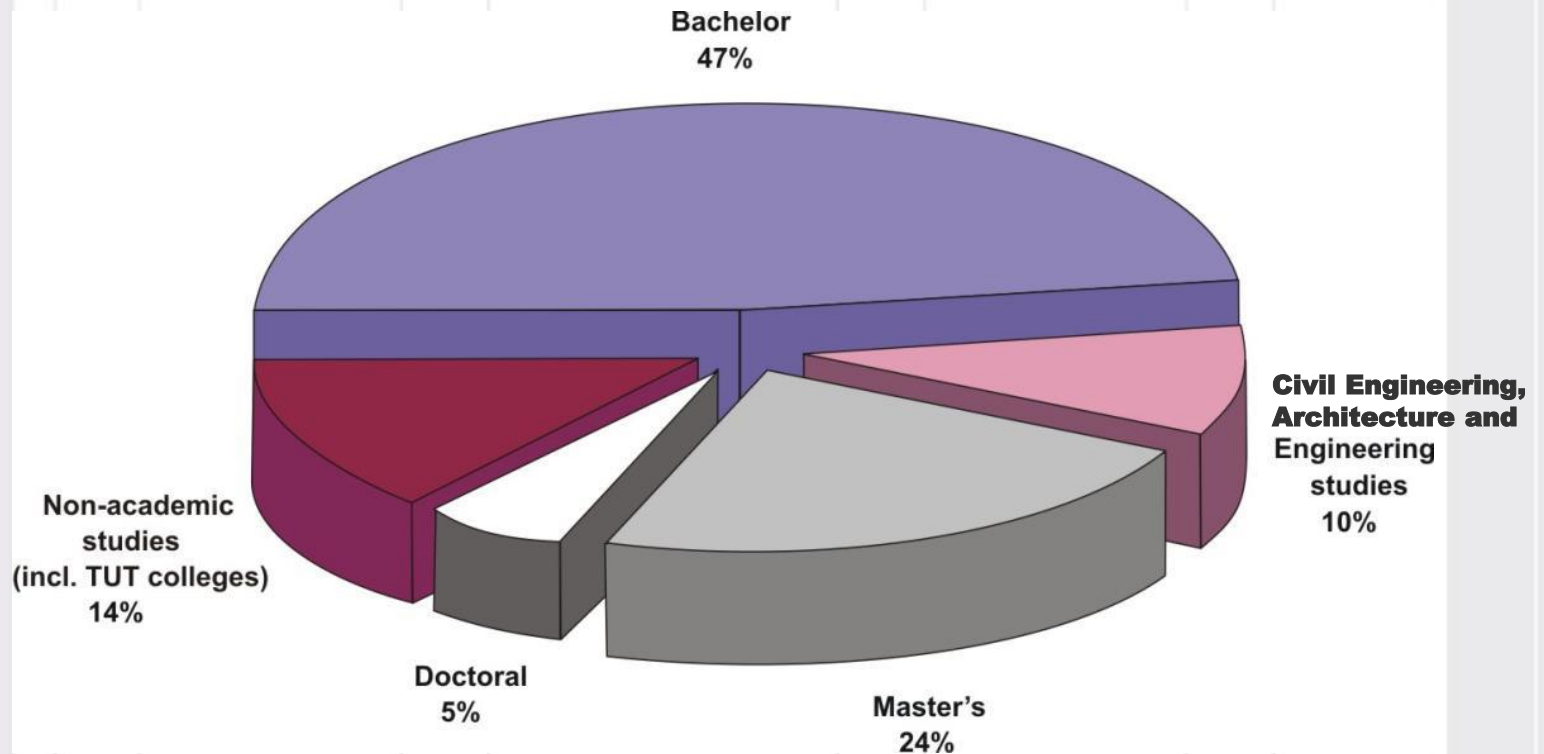
Professional HE programmes (colleges)

3-4 years

180-240 ECTS cp



Students (2014)

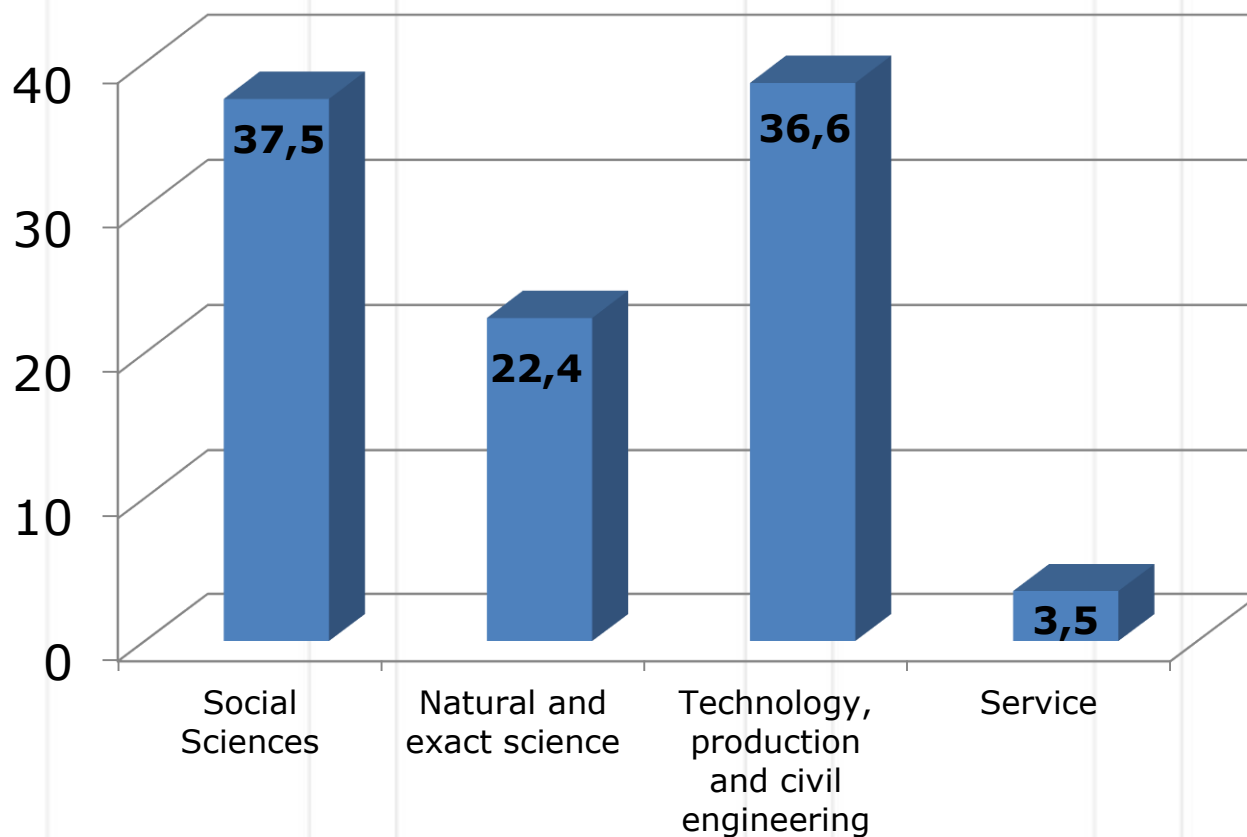


- **Bachelor level programmes: 30**
(26 in Estonian / 4 in English)
- **Master level programmes: 46**
(38 in Estonian / 18 in English)



Students (2014)

Study fields %





Enjoy opportunities as a student of TUT

- Seminars, lectures, (academic) conferences
- Internationally known professors and industry experts
- Scholarships (Governmental scholarships, Skype, Ericsson, LHV etc.)
- Start-up platforms for new ideas and solutions like **MEKTORY** and **START-UP INCUBATOR**
- Student trainings in Silicon Valley
- Competitions (Business Model competition, Robotex)
- Work and research possibilities (laboratories, institutes, companies)
- Networking with industry representatives

MEKTORY
MODERN ESTONIAN KNOWLEDGE TRANSFER ORGANIZATION FOR YOU





International TUT (2014)

- TUT is **the most international university** as well as the most international organisation in Estonia
- Out of all international degree students in Estonia (2013/2014):
 - 42% were admitted to TUT
 - 36% study at TUT
- Around **1200** international students (875 degree + 325 exchange students) from **83 countries**
- **10%** staff members are international
- Cooperation with top universities and companies all over the world



Start your career here!



Study programmes in English

2014/2015

- **4 Bachelor' s programmes** (180 ECTS, 3 years)
 - *1 tuition fee free study programme*
- **18 Master' s programmes** (120 ECTS, 2 years)
 - *10 tuition fee free study programme*
- **10 programmes in PhD**
 - *all tuition fee free*







International cooperation

- Projects with world's top universities, research centres and companies
- About 500 agreements (Erasmus and bilateral)
- Participation in several EC funded projects
- TUT is active in international networks (CESAER, BALTECH, UNICA, EURAXESS etc.) and in organizations (SEFI, EUA, EAIE, NAFSA, etc.)



Aalto University



STANFORD
UNIVERSITY



Honored to host (2012-2014)

Ban Ki-moon, Secretary-General of the United Nations

Alexander Vershbow, NATO Deputy Secretary-General

Toby Ferenczi, investor and lecturer at Stanford University

Akira Suzuki, Nobel laureate

Alistair Fee, Belfast Queen's University's

Sir Harold Kroto, Nobel prize winner

Dr. Burton Lee, Stanford University

Prof. Oussama Khatib, Stanford University

Prof. Glenn Ballard, UC Berkeley

Dr. Keith Devlin, Stanford University

Dr. Lisa Harper, UC Berkeley

Prof Mark Harris, InnoVaVentures CEO

Prof Thomas J. Howard, Nobel Prize Winner

Alain Crozier, President of Microsoft France

Jeremiah Alexander, Experimental educational technologist
exploring how learning can be made more playful, inclusive and
effective

Vinton G. Cerf, "The fathers of the Internet". Vice president
and Chief Internet Evangelist for Google

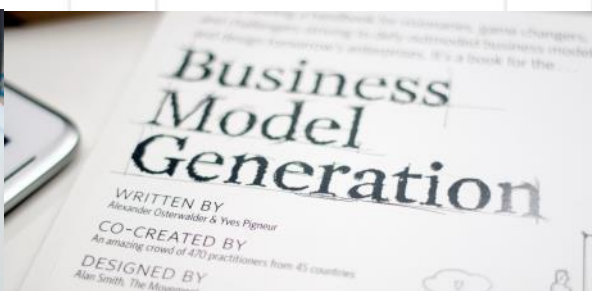
Dr. James Whittaker, Partner Technical Evangelist at Microsoft



Entrepreneurial and innovative university

In all activities – research, teaching, development, administration

- 200 industry partnerships per year (companies and other organizations)
- Commercialisation, protection and management of intellectual property
- Prototron fund - established by TUT, Swedbank and Tehnopol; launched to support prototyping outstanding ideas of young entrepreneurs helping to shape their first idea
- Innovation and Business Centre MEKTORY





Cooperation with top companies

- Ericsson Estonia AS
- Mitsubishi Motors Corporation
- Mitsubishi Corporation
- Samsung
- ABB, Vopak E.O.S. AS, Rendi.ee, State Real Estate Ltd, Kaarli Dental Clinic etc.



Some projects will never be public because of the business confidentiality. TUT will always guarantee the safety of intellectual property.

Students have a chance to start their careers already during their studies!





Innovation and Business Center

Aims:

- bring together researchers, students and entrepreneurs
- solve practical product development problems and generate new intelligent ideas
- tie theoretical studies at the university in practice to maximum possible extent
- prepare better-trained engineers with experience of cooperation with industry
- encourage students' Start-ups to move forward
- activities for kids showing that engineering is exciting, feasible and down to earth

To achieve the goals, in 2013 a whole new MEKTORY building was opened!



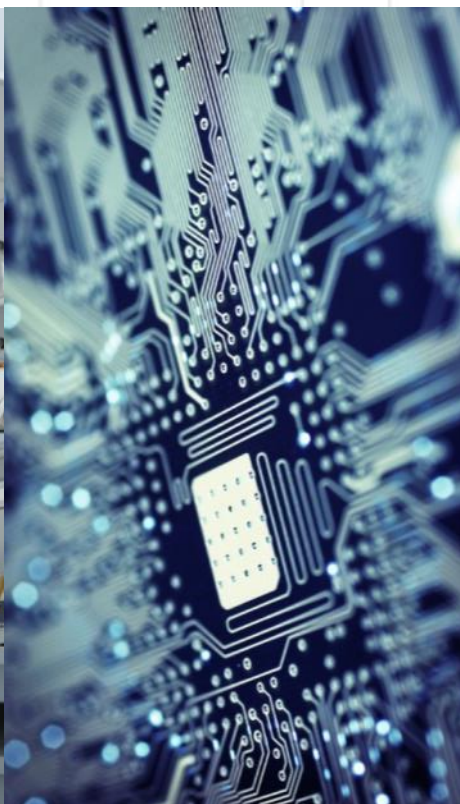




High competitiveness and income of our Alumni!

(2010/2011)

- 98% employment rate
- 75% earns over Estonian average
- 77% works in their field





Activities for society

- Lifelong learning programme
- Library
- Museum
- Programmes for high schools
- Regional development
- Cultural activities
- Sports possibilities
- Active Alumni movement





More information



www.ttu.ee/en

www.ttu.ee/ttucampus

www.ttu.ee/mektory

www.ttu.ee/magazine

In social media:



@Tallinn Tech



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