

## WHY ESTONIA?

- It is easy to bring your innovative ideas to life
- Beautiful country with Nordic values and living standards
- Full member of the European Union, Schengen Area and Eurozone
- Wired and high-tech society
- Homeland of Skype
- Blends medieval architecture with Scandinavian modernity ([www.tripadvisor.com](http://www.tripadvisor.com))

## ESTONIA IN FACTS

**OFFICIAL NAME:** Republic of Estonia  
**LOCATION:** Northeastern Europe, Scandinavia  
**CAPITAL:** Tallinn  
**GOVERNMENT:** parliamentary democracy  
**MEMBER STATE OF:** EU, WTO, OECD & NATO  
**TERRITORY:** 45,227 km<sup>2</sup> (larger than e.g. the Netherlands, which is 41,526 km<sup>2</sup>)  
**POPULATION:** 1.3 million  
**CURRENCY:** the euro (€)  
**OFFICIAL LANGUAGE:** Estonian  
**OTHER LANGUAGES:** English, German, Finnish, Russian  
**CLIMATE:** humid/temperate



Document to prove that your previous education was fully in English

- Copies of the identification pages of passport
- 1 passport size photo
- Receipt of non-refundable application fee for €100 ([www.ttu.ee/admission](http://www.ttu.ee/admission))
- Depending on the program-CV/ thesis proposal / motivational letter ([www.ttu.ee/prerequisites](http://www.ttu.ee/prerequisites))

### STEP 3

Send the application form together with the above listed documents to International Study Center of Tallinn University of Technology

# M A S T E R O F

## TECHNOLOGY OF WOOD AND PLASTIC

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TUITION FREE

### Contact

TALLINN UNIVERSITY OF TECHNOLOGY  
International Study Center  
Ehitajate tee 5, 19086 Tallinn ESTONIA  
SEND E-MAIL [study@ttu.ee](mailto:study@ttu.ee)  
CALL US (+372) 620 3422



WEBSITE

[www.ttu.ee/en](http://www.ttu.ee/en)



[tut.international](http://tut.international)



TallinnTech



TallinnTech



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### APPLICATION DEADLINES

- 1) Non EU May 1st
- 2) EU, Turkey, Georgia and countries who does not need visa to enter Estonia\* July 21st
- 3) Finland August 1st

\*USA, Canada, Australia, Japan, Brazil, Guatemala, Israel, Mexico, Macedonia, South Korea, Russia.

- Strong academic excellence and entrepreneurial spirit
- Internationally accepted diplomas
- Great student services
- Modern campus with new student dormitories
- Adventurous student life – find true friends for life!
- Office in Silicon Valley, California
- Cooperation with Microsoft, Skype, Samsung etc.
- Innovation center **MEKTORY**

## WHY Tallinn Tech?

TALLINN UNIVERSITY OF TECHNOLOGY

### FACTS ABOUT Tallinn Tech

**Founded:** 1918

**Location:** Tallinn, capital of Estonia

**Student body:** around 13500

**International student body:** around 8%

**Language of study:** Estonian, English

Biggest faculty of economics in Estonia

**Campus University**

## VERY EASY APPLICATION PROCESS!

### STEP 1

Fill out the online application form at [www.estonia.dreamapply.com](http://www.estonia.dreamapply.com), print it out, sign the confirmation page and send it with other required documents to TUT's International Study Center.

### STEP 2

Attach documents:

- Notarized/attested copies of Bachelor diploma and academic transcripts (translation in English)
- Proof of English language: copy of TOEFL, IELTS test or Cambridge English exams (FCE, CAE, CPE) or document that proves that your previous education was fully in English. TOEFL 70 iBT  
IELTS report: minimum score of 5,5  
FCE minimum requirement B  
CAE/CPE minimum requirement C

## FACTS

**Degree awarded:** Master of Science in Engineering (M.Sc.)

**Academic volume:** 120 ECP

**Language of studies:** English

**Duration:** 2 years

**Tuition fee:** No tuition fee \*

**Entry:** Bachelor's degree of equivalent in natural sciences or technical fields. CV and motivational letter/ personal statement

\*Only if the student is studying with a full study load.

[www.ttu.ee/wood&plastic](http://www.ttu.ee/wood&plastic)

The Technology of Wood and Plastic is a degree program, which provides specialisation either in wood technology or plastic technology. Teaching is organised into modules combining lectures, seminars and laboratory work in the recently renovated laboratory of Polymer Physics and Technology, which is equipped with state-of-the-art devices. The program also emphasizes the basic practical knowledge of CAD-engineering programs and CAM-manufacturing technologies as they are extremely important in every industrial sector all over the world. The curriculum gives students the unique opportunity to implement their individual research projects in collaboration with various companies.

## KEY FEATURES

- Provides a practical and vocational preparation for work in the international wood industry producing sawn timber as well as profiled and panel materials based on wood polymer composites timber and furniture
- Introduction to the main types of engineering plastics and composite materials, the technological properties and processing technologies of polymers
- New development trends in sustainable materials and products
- Three hands-on industrial projects accomplishment experience provides smooth transition from university studies to professional career in private company. The time for entering into the market with new product becomes shorter and shorter. Therefore the learned computer skills in virtual modelling, and testing of products form a good basis to find a diverse job in global mechanical or chemical engineering industry.
- This master curriculum is supported by Blended learning solutions. The development of this master curriculum was supported by European Union ERDF programme



Faculty's and program's collaboration partners include various well-known international wood companies and leading global plastic products manufacturers.

# MASTER OF TECHNOLOGY OF WOOD AND PLASTIC

Faculty of Chemical and Materials Technology

## STRUCTURE OF THE CURRICULUM

General studies	12 ECP
Core studies	36 ECP
Special studies	37 ECP
Free choice courses	5 ECP
Graduation thesis	30 ECP
<b>TOTAL</b>	<b>120 ECP</b>

## BASIC STUDIES

- Introduction into Studies
- Entrepreneurship and Small Business Management
- Manufacturing Planning and Control
- Modelling and Testing of Products and Processes
- Statistical Analysis

Jaan Kers  
Professor of Woodworking  
Head of the M. Eng. Program

“Regarding the forest resource in Estonia, we are among the five richest countries in Europe. Extensive forest, which covers 51% of Estonian landscape, has resulted in perfect conditions for a high-tech timber and timber products industry. 25% of Estonian export sales are made up of wood, timber, wood-based products, furniture and

## CORE STUDIES

- Analysis of Polymeric Materials
- Wood Structure, Properties and Primary Processing
- Wood-Polymer Composites
- Polymeric Materials: Synthesis and Properties
- Sustainable/Cleaner Production
- Cellulose Technologies
- CAD/CAM Technology in Woodworking and Plastics Industry Enterprises
- Sustainable/cleaner Production
- Research work and Innovation

## SPECIAL STUDIES

- Project 1
- Project 2
- Project 3
  
- Specialization: Wood Technology
- Woodworking Technology
- Technology of furniture Industry
- Technology of Upholstery Furniture Industry
- Biodeterioration of Materials
- Recycling and Energy Recovery of Wood and Plastic Wastes
- Testing of Polymeric Materials
- Specialization: Plastic Technology
- Technology of Plastics Industry 1
- Technology of Plastics Industry 2
- Biopolymers: basics, production and applications
- biodeterioration of Materials
- Recycling and Energy Recovery of Wood and Plastic Wastes
- Testing of Polymeric Materials

FREE CHOICE COURSES  
GRADUATION THESIS

plastic products, and that is why the Department of Polymer Materials has a strong connection with the industry. Therefore, our professors not only teach, but also practical experience thanks to their continuous cooperation with companies.”

## FUTURE CAREER OPTIONS

Graduates will be in demand as the candidates for engineering and management positions in woodworking, furniture, upholstered furniture or plastic converting industry, more precisely manufacturing engineer, quality engineer, project or sales engineer or manger positions. Apart from working in industry, graduates can launch their careers as scientific researchers and continue studies at the PhD level.

## RIGHT OF RESIDENCE

All foreigners coming to Estonia for the purpose of studies must obtain a right of residence for the duration of their studies.

EU Students: must register their place of stay in the City District Government office, and then apply for an ID-Card from the Police and Boarder Guard office.

NON-EU students: must apply for a Temporary Residence Permit (TRP) either in the closest Estonian consulate, or in Estonia within one month of arrival if arriving with a visa.

The university will issue you an enrollment document, which gives you a legal right to apply for the TRP.

TRP process can take 2-3 months, so apply immediately after receiving enrollment confirmation.

More info can be found on [politsei.ee](http://politsei.ee) -> Temporary residence permit for studies

After receiving the Temporary residence card, students must register their place of stay in the City District Government office.

## ACCOMMODATION

There are two main options for arranging student accommodation in Tallinn:

- On campus accommodation – Tallinn Tech administrates 6 dormitories. Residences are based on “box-system” – furnished apartment with 2 rooms for 4 persons, with shared kitchen and a bathroom. Rent per person in a twin room is around €125 per month. As the number of places in the residences is limited, university cannot guarantee a place for all the students.
- Private rooms and apartments for rent – apartments are usually found through Internet or rental agencies operating in Tallinn. Prices depend on the apartment, its location and number of rooms.

## LIVING EXPENSES

The cost of living in Estonia, comparing to the rest of the European Union, is very affordable. The average monthly expenses of living for international students, including accommodation, transport, food and some other, can be estimated as around €500.