

## LEARNING AND STUDENTS

### Educational programs and sustainable development

We are aware of the importance and necessity of educational programs for sustainable development, contributing to a systematic transition to rational consumption and production models. In this regard the University attracts students to this problem and the search for optimal solutions through new bachelor's and master's degree courses related to Technosphere Safety and Quality Management.

### Points of the sustainable programs

During the training, teachers use modern technical means, control methods and forecasting to minimize anthropogenic impact on the natural environment. Special attention is paid to the experience of European countries in the field of prevention, involvement in economic turnover and utilization of waste. An internship in Germany and other countries within the framework of international cooperation of the department serves as an additional factor for attracting future students.

### Practice without borders

University teaching staff also participates in foreign internships. In this case, research experience of Larisa Begunova. She completed an internship at the Brandenburg University of Technology, got acquainted with research methods in the central analytical laboratory, and studied the European experience of garbage sorting.



**815**

NUMBER OF COURSES/MODULES  
RELATED TO ENVIRONMENT  
AND SUSTAINABILITY OFFERED  
IN 2020

## RESEARCH

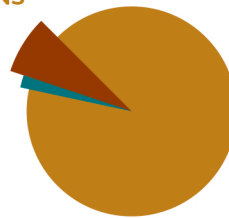
### International rankings

Every year the University participates in the UI Green Metric World University Ranking and in 2020 it took 389th place in the world.



### TOTAL NUMBER OF PUBLICATIONS DEVOTED TO ENVIRONMENTAL SCIENCE (IN SCOPUS)

**16** Sustainable Development  
**2** Household waste recycling  
**108** The others



### Sustainable Development Program

Every year the University publishes on the website a "Report on the implementation of the INRTU Sustainable Development Program", it includes garbage sorting, minimization of plastic use, amount and disposal of hazardous waste, etc. And also everyone can always find up-to-date information about scientific breakthroughs, the latest developments and innovation in the university publications.

### The Vanguard of Science

Different competitions on research projects are held at the student level: the biggest one is a competition "Vanguard of Science". Often students' engineering creativity and invention are based on ideas of an environmental orientation, including optimization of waste management within the university walls. For instance, device for recycling 3D printing waste or household waste press.

## PUBLIC ENGAGEMENT

Public sphere of the University is also influenced by the Sustainable Development Program and is structured in such a way that its basic principles are respected.

### Volunteer squad "Taiga"

Student environmental group "TAIGA" is a voluntary, self-governing, non-profit association of INRTU youth and citizens with an active life position, which carries out educational, socially useful and practical activities in the field of waste management and environmental protection. In 2020, the members of "Taiga" took an active part and initiated volunteer events, seminars on the topic of separate waste collection and environmentally correct behavior.

### "Archpuzzle" Hackathon

Hackathon "ArchPuzzle" is one of the largest events of the "Arch Movement" project, which was initiated by students and university staff. In 2020, hackathon in INRTU was a creative one and aimed at popularizing the system of separate collection of recyclables in Irkutsk. Teams of participants created art objects with an overall message of collecting recyclable materials.

### Issues on Household Waste Disposal in the Region

Events that affect the issues of waste disposal and its increase have urgency for modern society. INRTU teaching staff also participate in different research activities such as 10th International PTSCIENCE Competition - research on the results of municipal waste disposal activities in the Irkutsk region or the development of an environmentally safe technology for processing accumulated colloidal sludge-lignin, JSC "BTSBC" - in regional competition program "Ecoprom".



## OPERATIONS

### Responsible Procurement Procedures

For responsible consumption and production a special procurement commission is being created. Everyone can get acquainted with the regulations on procurement in INRTU on the website; there is also detailed information about the requirements for third-party services and supply chains.

### Reuse of the Things

University staff and students try to decrease the use of disposable plastic items referring to the student cafeteria products. They stand for a gradual transition to reusable items. Student organizations of INRTU give lectures for schoolchildren and students, in particular, about the rational use of objects in everyday life, encourage the desire to use reusable things.

### Useful Eco-activities

Clothes, waste paper, old batteries are regularly collected at the university, and then all the things can be recycled or reused. Regularly clean-up days, lectures and meetings with eco-activists are held.



### Initiatives of students and teachers

In daily practice employees are involved in various projects to implement various technological tools proposed by teachers and students. These initiatives, as a rule, are aimed at fostering environmental habits; cultivate a culture of rational resource use among university staff and students. For example:

**"SMART" LITTER BIN**  
**PRESS FOR HOUSEHOLD WASTE**  
**PROJECT "WOOD FOR WASTE PAPER"**

As an incentive measure, students and staff receive pleasant discounts on visiting the canteen.