



SUMMER PROJECTS at URFU 2022

Dear Colleagues and Students!

In 2022 we are offering **4 project-based courses on Campus** for international students in cooperation with the leading industries of the Ural Region. The academic team consists of the most outstanding professors, winners of diverse scientific awards, having high scientific ratings.

All the **detailed information** is on our **website**.

MECHANICAL ENGINEERING

The program offers courses that **combine engineering theory and practice**, focusing on the **design and development** of various **mechanical devices and equipment**. The Program provides profound training in engineering and such **skills as computer-assisted drafting and manufacturing (CAD/CAM)**. The projects simulate **real work tasks**, connecting theory and actual design, manufacture and testing of projects.

COMPUTER SCIENCE

The project **covers the basics of data preprocessing, visualization, feature engineering** as well as **machine learning application for biomedical signals processing**. There will be discussed **key tasks** of machine learning, including **clustering, regression and classification**. A variety of models from simple linear and logistic regression to more complex ensemble methods will be considered. A **key aspect** is **working with real data** which includes but not limited to the **Kaggle competitions** as well as **PhysioNet** biomedical signals datasets. The basic principles of evaluating and analyzing machine learning models will be also discussed.

MANAGEMENT

This program **focuses on practices and processes** which are used **to manage innovation** effectively and also on institutional principles of digital innovation system. The course helps to **develop new Business and Management strategies**. Programs content **includes theoretical principles** as well as **interactive practices, workshops, business, games, case-studies and trainings**.

CIVIL ENGINEERING

This project is **based on designing of steel frame main elements and joints, pre-casted pannels, columns and beams, flat slabs and column of cast in place** buildings. The project **includes working with different software, industry visits** and work with the **real clients** to design industrial building for particular purposes.

AT THE END OF THE SUMMER PROJECTS:

- ☑ The most outstanding participants will **publish the project results in peer-reviewed scientific journals** with the leading university professors
- ☑ **Letter of recommendation** from the supervisors
- ☑ **Certificate** from UrFU with ECTS points
- ☑ **Unique experience** in international cooperation
- ☑ **Bright memories** from informal cultural activities with UrFU volunteers

We are waiting for you!

Contact us via application@urfu.ru








Computer Science, Mechanical Engineering

Dates	4 July - 31 July
Application Deadline	15 April 2022
Cost	1200 USD
ECTS	4

- 4 tracks
- 1 month
- Study on campus
- Unforgettable experience of living abroad



-  Practical Approach
-  Team Work and Case Solving
-  Supervision by UrFU Professors
-  Real Industry Tasks
-  Published Results