SMART CITY
INTELLIGENT SYSTEMS

MASTER'S PROGRAMME DEGREE

ADVANTAGES OF THE PROGRAM

- ✓ The opportunity to improve the skills of system analysis and data processing, the use of computer technology, to learn additional chapters of intelligent control systems.

- ✓ The opportunity to obtain skills in designing intelligent automatic control systems.

- ✓ The use of the most advanced training tools and technologies.

- ✓ Comprehensive development of students' research skills, the possibility of their participation in scientific projects in cooperation with leading enterprises in the field of systems development of Smart City.

- ✓ Teaching in English.

EDUCATIONAL PROCESS

120 credits.
Lectures, practical classes and self-study, several practices

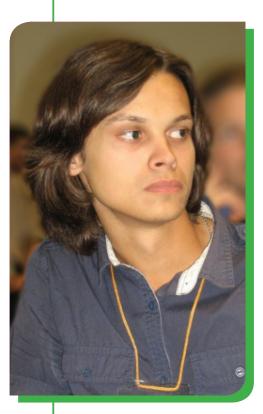## IN THE COURSE OF THE PROGRAM, STUDENTS STUDY THE FOLLOWING MAIN SUBJECTS:

- Introduction to Smart City Systems.
- Intelligent Control Systems.
- Technologies of Programming in High Level Languages.
- Application of Geoinformation System and Earth Remote Sensing data for Solving Applied Problems.
- Big Data Processing.
- Distributed Databases.
- Pattern Recognition Systems.
- Methods for Solving Scientific and Engineering Problems.
- Transportation and Logistics of Smart City.
- Smart City Services.

Students of the Master's program actively participate in specialized conferences and seminars, are involved in the implementation of research and development work, take part in master classes, and are trained at academic institutions and leading industrial enterprises.

HEAD
OF THE PROGRAMME

IVANYUKHIN ALEXEY VIKTOROVICH

Candidate of Technical Sciences, Associate Professor of Mechanics and Mechatronics.

AREAS OF SCIENTIFIC INTEREST:

computational mathematics, mathematical modelling, parallel algorithms, astrodynamics.

Author of scientific articles in peer-reviewed Russian and foreign scientific journals (HAC, SCOPUS, Web of Science).

Regularly gives reports at international conferences.

Repeated performer of grants of Russian scientific funds for research and organization of scientific events.