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INSTITUTE OF ENGINEERING AND DIGITAL TECHNOLOGY

## FUNDAMENTAL INFORMATION SCIENCE AND INFORMATION TECHNOLOGY

During the course, students acquire skills in software development, debugging and quality assessment.

Special attention is given to creating highly efficient software based on parallel computing. A supercomputer "Nezhegol" and a computer lab equipped with the latest Apple computers are used in the teaching process.

Students have the opportunity to undertake an internship in leading IT organizations, which leaves no one without a job in the future. Graduate students have the opportunity to get a part-time job in their field of study.



# FUNDAMENTAL INFORMATION SCIENCE AND INFORMATION TECHNOLOGY

**LEVEL** Bachelor

## DEPARTMENT

Institute of Engineering and  
Digital Technology

**DURATION** 4 years

**START DATE** 1st September

**LOCATION** 308015, building  
15, st. Pobedy, 85, Belgorod

**LANGUAGE** Russian

## PROGRAM COORDINATOR

Muromcev Viktor  
Vladimirovich

## TUITION FEES

2500 USD

- currency of payment is ruble

## WEB

[bsuedu.ru/bsu/](http://bsuedu.ru/bsu/)

## ACADEMIC-RELATED ENQUIRIES

**e-mail:**

[Muromtsev@bsu.edu.ru](mailto:Muromtsev@bsu.edu.ru)

**t. (4722) 30-13-53**

## ENTRY REQUIREMENTS

Admission of foreign citizens to study under contracts for the provision of educational services is carried out on a competitive basis (based on the results of entrance tests conducted by the university).

## APPLICATION

Application for acceptance of documents for enrolment (by mail).

Consent to the processing of personal data of the applicant.

Letter of consent

Identity document, citizenship.

Academic degree

Documents confirming the individual achievements of the applicant.

An agreement on the provision of paid educational services (for admission on a contractual basis).

## PROGRAM STRUCTURE

Year 1 - study of general education subjects, mathematics, computer science and the basics of C++ programming.

Year 2 - in-depth study of C++ programming, data structures, databases (MySQL, PostgreSQL, PgAdmin, ERWin), computer data processing algorithms, embedded systems programming and Internet programming (HTML., JavaScript, MySQL, phpMyAdmin, PHP, Ajax).

Year 3 - Learning distributed databases (Oracle Database 10g Express Edition). Studying methods of paralleling programs, software engineering and administration of information systems.

Year 4 - In-depth study of the theoretical foundations of fundamental computer science (automata theory, formal language theory, neural networks, genetic algorithms, etc.). Study of microcontroller programming. Study of 3d modeling. In-depth study of software engineering and use of CASE tools (IDEF0, IDEF3, IDEFIX, UML, BPWin, ERWin, Rational Software Architect).

## CAREER OPPORTUNITIES

After completing your Bachelor's degree, you can find employment as: programmer, system administrator, Android/iOS developer, database administrator, web developer, software tester, etc., or continue your studies in the Master's programme 02.04.01 Mathematics and Computer Science.