Employment of graduates:

- Google
- Жилстройсбербанк
- Eurasian Bank
- Казахтелеком
- Банк Хоум Кредит
- Halyk Bank
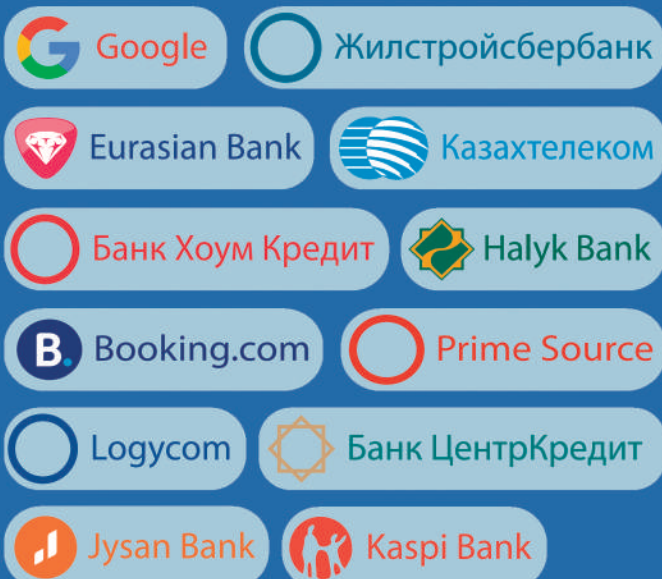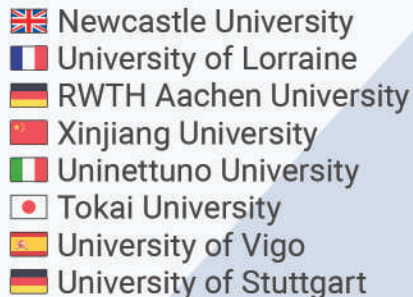- Booking.com
- Prime Source
- Logycom
- Банк ЦентрКредит
- Jysan Bank
- Kaspi Bank

Academic mobility

Students have the opportunity to study for 1 or more semesters in international exchange programs in the best foreign universities.

Foreign partners of the department:

- Newcastle University
- University of Lorraine
- RWTH Aachen University
- Xinjiang University
- Uninettuno University
- Tokai University
- University of Vigo
- University of Stuttgart

Students have the opportunity to:

- attend free circles in various areas of IT (Python, C++, C#, Java, development of websites and Web applications, mobile application development, SQL, analysis of Big Data...)
- attend preparatory courses in professional programming, participate in the ACM ICPC programming world championship
- get international certificates from Microsoft, CISCO, Samsung and other global companies.
- participate in scientific projects and earn money starting from the 2nd year.

Contacts

Al-Farabi Kazakh National University

Address: 050040, Republic of Kazakhstan, Almaty, al-Farabi Ave. 71/23
Tel.: 8 (727) 377-33-30

Faculty of information technology
Department of computer science, room 226.
Tel.: +7 (727) 221 15 77
@computer.science.kaznu

Al-Farabi Kazakh National University
Faculty of information technology

Department of computer science
Educational program Computer science

Almaty, 2020

Material and technical base of the educational program:

For the implementation of the educational program, the faculty has laboratories that are branches of world famous IT companies and are equipped with modern installations, hardware and software:
- ✔ HP laboratory.
- ✔ Laboratory network equipment CISCO.
- ✔ Laboratory of technical security systems Perco.
- ✔ Laboratory of network equipment Alcatel.
- ✔ IS Security laboratory (Kaspersky).
- ✔ Laboratory of Computer Science.
- ✔ Student Innovation Laboratory for the design and development of advanced solutions in the field of Information and Communication Technologies.
- ✔ Laboratory "Intelligent Programmable Systems".

Levels of training:

Bachelor's degree
«6B06104- Computer science»
Master's degree
«7M06104- Computer science»
Doctor's degree
«7M06104- Computer science»

The objectives of the educational program

Bachelor's degree «6B06104- Computer science»
training of competitive, competent specialists in the field of
- modern design technology and software development
- artificial intelligence for the implementation of computer vision algorithms and big data analysis
- developing high-performance computing systems based on parallel algorithms.

Master's degree «7M06104- Computer science»
The implementation of the educational program is aimed at forming a professional personality of a specialist who can:
- To interpret and generalize the deep modern knowledge of the latest theories in the field of software development, creating effective ways to solve computational problems;
- To solve problems in new contexts within the framework of wider or related scientific fields related to computer sciences;
- Independently carry out scientific research in the context of the latest theories, methodologies and technologies;
- To interpret the results of their own scientific research, to uphold them in scientific and industrial discussions, to test them at republican and international conferences, in refereed journals;
- Independently build a further program of their scientific and educational activities.

Doctor's degree «8D06103- Computer science»
to provide training for competitive specialists with in-depth knowledge in the field of computer science, capable of contributing with their own original research to expanding the boundaries of knowledge in the field of computer science, formulating and solving modern scientific and practical problems, teaching at universities, and successfully carrying out research and management activities.

The main directions of scientific research are:

- Development of a system for extracting knowledge from heterogeneous data sources to improve the quality of decision-making.
- High-performance computing.
- Visualization of big data.
- Virtual and augmented reality (AR, VR)
- Building calculation grids.
- Modeling of oil field development.
- Processing weakly structured data.
- Big data Analytics.
- Programming on microcontrollers.
- Development of an intelligent high-performance information and analytical search engine for processing weakly structured data.
- Creation of high-performance intelligent analysis technologies and making decisions for the system of "logistics agglomeration" in the framework of the digital economy of the Republic of Kazakhstan.

There are the following types of professional activities:

- ✔ Programmer
- ✔ Software developer
- ✔ Web developer
- ✔ Game developer
- ✔ Database administrator
- ✔ Systems analyst
- ✔ IT project manager
- ✔ Financial programmer
- ✔ Big Data analyst
- ✔ Computer systems analyst
- ✔ Mobile app developer
- ✔ Computer and information systems manager
- ✔ Scientific researcher in the field of information technology
- ✔ Information security analyst
- ✔ Data scientist
- ✔ Data manager