

Big Data and Data Science

National Research Tomsk State University

Language of study: **English**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **no**

Price: **185 200 RUB per year**

Programme webpage at the university website: <http://inter.tsu.ru/node/232>

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Big data refers to the massive amounts of information becoming available as people use the internet and computers more. This data can generate powerful insights in domains ranging from business and entertainment to politics and healthcare. However, the amount of data being captured today is ever-increasing and extends beyond the storage and analyzing capacity of traditional applications.

This Master's program is aimed at training specialists in the field of Big Data and Data Science.

Data Science is a rapidly growing field and job market. Successful career in data science starts with obtaining a solid knowledge and skill base, that can be offered by a combination of classic education and modern practically oriented interactive learning. If you want to start your career path in the exciting new area the right way - you can join our course. Upon the completion of our program you'll be able to choose the best application for your skills in research, business, analytics or technical area.

The program Big Data & Data Science includes various branches of data analysis and machine learning and has three academic tracks («Industry 4.0», «Bioinformatics and Biomedicine», «Social Media»).

«Industry 4.0»

Majors (Core courses):

Digital Signal Processing

High Performance Computing

Research Topics in Industry 4.0 (Industrial Data Analysis)

Research Topics in Industry 4.0 (VR/AR technologies)

Research Topics in Industry 4.0 (Digital Image and Video Processing)

«Bioinformatics and Biomedicine»

Majors (Core courses):

Fundamentals of Molecular Spectroscopy

Modeling of molecular targets for medical diagnostics and therapy

Research Topics in bioinformatics

Research Topics in biomedicine

«Social Media»

Majors (Core courses):

Social Network Analysis 1

Data mining in Social Media 1

Research Topics in Social Media : Methodology of Social Media research

Research Topics in Social Media : Preparation of research tools

Specializations within this programme