

# Big Data Systems

National Research University – Higher School of Economics

Degree or qualification is awarded: **Master in Business informatics**

Language of study: **English**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **200 000 – 400 000 RUB per year**

Programme webpage at the university website: <http://www.hse.ru/ma/bigdata/>

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This programme focuses on the value aspect and implementation of big data for large enterprises. Big data technology has incredible value across financial, telecommunications, and government services, with the possibility of reducing costs and improving efficiency.

Through core courses, electives, research seminars, and a master's thesis, students acquire a strong foundation in the fundamental principles and technological components of big data. From cloud computing and data visualization to predictive modeling and big data-based risk analytics, a wide array of topics are available for students to master.

Graduates go onto careers working on systems within large companies and organizations or carrying out scientific research.

## Curriculum

- **Core courses:** System Analysis & Organization Design, Economic and Mathematic Modeling, Enterprise Architecture Modelling, Advanced Data Analysis & Big Data for Business Intelligence, Big Data Systems Development and Implementation
- **Electives:** Knowledge Discovery in Data at Scale Technologies, Cloud Computing, Data Visualization, Advanced Data Management, Big Data Collection, Storage & Processing in Heterogeneous Distributed Computer Networks, Natural Language Processing, Applied Machine Learning, Creating and Managing Enterprise Information Assets, Predictive Modeling, Big Data Based Marketing Analytics, Big Data Based Risk Analytics, Data Driven Process Control

**Partner universities:** University of Munster (Germany)

## Specializations within this programme