

# Governance of Science, Technology and Innovation

National Research University – Higher School of Economics

Degree or qualification is awarded: **MSc in Management**

Language of study: **English**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **195 000 – 390 000 RUB per year**

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

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This innovative programme is aimed at solving complex research problems in the field of policy, global trends and achievements in science, technology and innovation. Students gain a global perspective on STI issues and the ability to make assessments taking into account the relevant scientific, social, and ethical dimensions.

Over the course of the programme, students receive instruction and do internship at HSE Moscow, and at international partner universities and undertake a master's thesis during their final semester of study. Through this varied 2-year course of study, the programme combines theoretical education and practical experience. The personal qualities and intellectual potential of the students enrolled in the programme will be enriched and developed so that they will be able to apply policy and management skills in science, technology, and innovation to work undertaken during their subsequent careers with companies, organizations and government bodies.

Student profile: Ambitious and driven thinkers and leaders interested in understanding, exploring, developing, and teaching how science, technology, and innovation interact with society, organizations, and countries, as well as generating sustainable value and achieving measurable success from these interactions.

Career opportunities: Whether you wish to work in public service, the private sector, or academia, this master's programme will provide you with a wide spectrum of competencies. You will graduate with the necessary knowledge and skills to make or advise on policy, management, and strategic decisions – whether as an innovations manager at a technology company or as a senior policy analyst within the government

## Curriculum

*Compulsory courses:*

- Measurement of STI
- Innovation Strategies
- Scientific Research Methods for STI
- Research Seminar
- STI Policy
- Project Seminar «From Digital Trends to Strategy Development»
- Innovation Project Management and Competitive Intelligence
- Foresight
- Economics of Innovation

*Elective courses: (to choose at least 6)*

- Academic Writing
- Combining and Analyzing Complex Data
- Social Media Data Analytics

- The future of Energy
- The Impact of Technology
- Design Thinking for Innovation
- Patenting in Biotechnology
- Leading Innovation in Arts and Culture
- Innovating in a Digital World
- Innovation for Entrepreneurs: From Idea to Market
- Innovation & Entrepreneurs: From Basics to Open Innovation
- Innovation Strategy: Developing Your Fintech Strategy
- Strategic Innovation Toolkit for Managers
- Corporate Entrepreneurship
- Corporate Foresight
- Marketing Innovation
- Marketing Analytics
- Understanding Research Methods
- Technology Assessment
- Managing Creativity and Innovation
- Questionnaire Design for Social Surveys
- Crafting Strategies for Innovation Initiatives for Corporate Entrepreneurs
- Regional STI Policy
- Strategic R&D Partnership
- Innovation Management
- Intellectual Property Management
- Digital Product Management: Modern Fundamentals
- Finance of Innovation
- Digital Transformation
- Econometrics: Methods and Applications
- Massive Open Online Courses (MOOCs)
- University Pool Discipline

### **Term paper**

During the first year of studying students complete term papers in either an essay form or a project form.

### **Research Seminar**

During the research seminar students are trained to work on scientific projects, academic writing, presentation skills and essay preparation in the first 2 modules. In the subsequent modules students carry out independent research tasks and write an essay in each module. Essay writing is complemented by presentations of the essay and discussion among the students.

### **Project Seminar/Project**

Equipping students with practical skills for planning innovation projects and business ideas is the core of projects. Students form groups of 3-5 members who are developing a practical project plan. These projects plans are either innovation projects of existing companies or ideas which are developed into business plans. Project Seminar gives the theoretical basis for the Project

### **Master Thesis**

The Master Thesis is prepared during the final 2 modules (2nd year, modules 3 and 4) accompanied by practical work. The Master thesis theme will be defined according to the Master programme topics. The practical work should follow the Master thesis topic with special emphasis on solving practical problems using knowledge and competencies acquired during the programme and preparing the Master thesis.

### **Partner universities:**

*Double-degree Programme:*

- Technical University of Berlin (Germany)
- Maastricht University (the Netherlands)
- Seoul National University (Republic of Korea)
- Turin Polytechnic University (Italy)

*Exchange programme:*

- Seoul National University (Republic of Korea)
- Maastricht University (The Netherlands)

## **Internship**

The internship programme is designed to allow students to engage in professional relationships with ministries, agencies and corporations. NRU HSE will advise students and provide a number of internships with selected institutions. The internship programmes will be negotiated by the student with the prospective employer. NRU HSE will approve the agreements and assure that internship positions are in accordance with the Master programme curriculum. After the practical work students prepare a report outlining the major duties and results of their internship.

## **Specialization within this programme**

During the education, you will master 4 types of activities: management, research, design and entrepreneurship.

After completing the Master's degree, you will receive:

- Weighty portfolio through participation in projects;
- experience in solving large-scale tasks (from business to scientific project);
- professional contacts in Russia and abroad.

Your personal competencies also include:

- Ability to analyze data and apply it in solving management tasks;
- conducting research in the field of management;
- managing various projects and developing innovation strategies.

## **Where you can apply it**

- National, Federal and Regional Authorities
- Development institutes and scientific foundations
- Research universities, centers, organizations
- Large innovative projects of national importance
- Research and innovation centers of international companies
- Foreign and Russian consulting companies
- International organizations

## **Specializations within this programme**