

International Master's program

PROTOTYPING FUTURE CITIES

National Research University Higher School of Economics, Moscow

ABOUT

What will the city of the future be like? Which skills will professionals need to build a smart city? How will we operate at the intersection of technology innovation, urban design, business models, strategy and society? The international Master's program in Prototyping Future Cities provides an integrated education with a multidisciplinary approach in relation to the urban project, technology, and urban studies. This program takes a holistic approach to the expansion and regeneration of cities and is intended to create a new type of professional who can develop any kind of project in order to lead urban transformation. Led by international experts and Russian scholars who are creating the agenda for smart city development, this program will teach you to understand the city at all scales and solve urban problems using technology.





Vicente Guallart academic supervisor of Master's program, former chief architect of Barcelona

PROGRAM INFORMATION

1 November, 2018 Application process starts **15 August, 2019** Application deadline for local students

31 July, 2019 Application deadline for international students **9 September, 2019** Program starts

Field of Study	Urban Studies and Development
Language of Instruction	English
Duration and Mode of Study	2 years, Full-time Program
Tuition Fee in 2019	450 000 RUB a year
Scholarship	Enrollees who apply before 14 April 2019 and receive more than 70 points for their application portfolio will be given a 20% discount on the tuition fee.

PROGRAM FACTS

The research and project agenda of the international Master's program in Prototyping Future Cities is developing along five key educational layers: City Project, Technology, Information, Management and Culture. The program, which consists of compulsory subjects, research activities, international workshops and internships, focuses on digital fabrication, big data, internet of things (IoT), urban design, social innovations and smart urban technologies. The program also focuses on the different scales of urban reality – objects, buildings and the city as a whole. The curriculum is formed in accordance with the modern requirements for training specialists in smart city development.

Learning by doing

The key learning principle of the program is learning by doing. In Shukhov Lab Laboratory for Experimental Urban Design students try new technology, prepare prototypes, investigate and analyze the city through data, and develop projects that come as a relevant response to the complex problems that affect modern cities.

International field trips

International field trips give young innovators the opportunity to learn about the most recent research and projects in smart city development, new technologies and self-sufficient building from the leading global experts.

Shukhov Lab

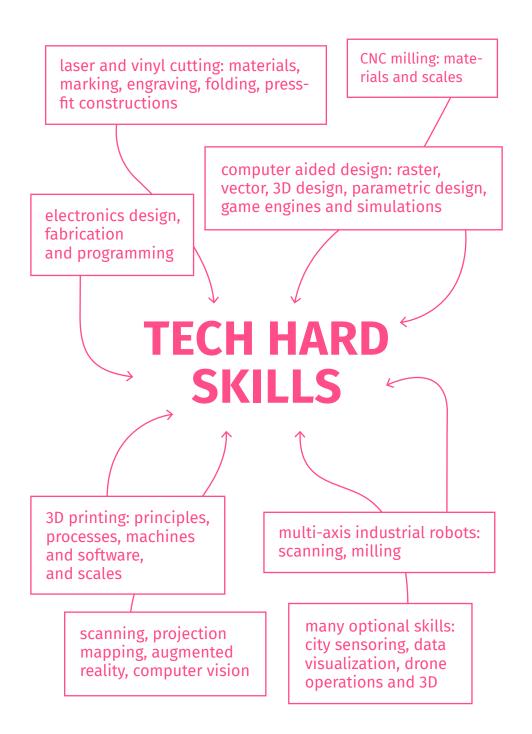
The Master's program in Prototyping Future Cities takes place in the Shukhov Lab at the Higher School of Economics in Moscow. The Shukhov Lab is one of the FAB LAB global network laboratories with a research and fabrication focus on experimental urban design. Fabrication of emerging prototypes is a key feature of the Master's program. In the Shukhov Lab, students have full access to technological resources, such as 3D printers, laser cutters, and CNC machines. Here young innovators bring the most adventurous and boldest architectural and design ideas to life and work closely with leading experts on a daily basis.

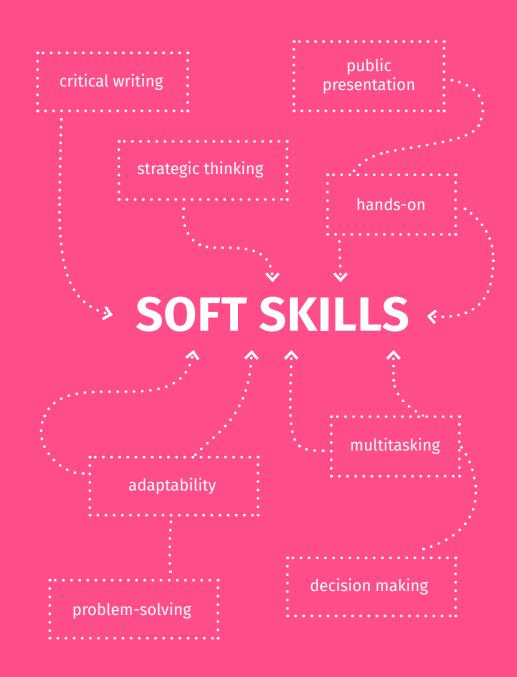


What skills will I develop?

The Master's program curriculum and educational methods give students the ability to develop both hard and soft skills, which add value to their CV and prepare them for a successful career.







COURSES

1st year

Semester 2 (01-05)

Technology (Things@LAB) Management (New Business Models) Culture (Readings on Urbanity) Information (Recording Sociology) City project (Things)



- Technology (Communities@LAB) Semester 1 (09-12) Management (Impact analysis)
 - Culture (City Protocol)
 - Information (Mapping Economy)
 - City Project (Spatial Planning, Analysis and Urban Design)
- Semester 2 (01-05) **Graduation Project** Internship Examination International Evaluation



TUTORS





Guest Lecturers

Alexey Novikov Habidatum

Daniel Ibanez Margen-Lab

Carlo Ratti MIT Senseable City Lab

Victor Attila Albert HSE School of Political Science **Oscar Aceves** Architecture, Professor

Greg Lynn UCLA School of the Arts and Architecture

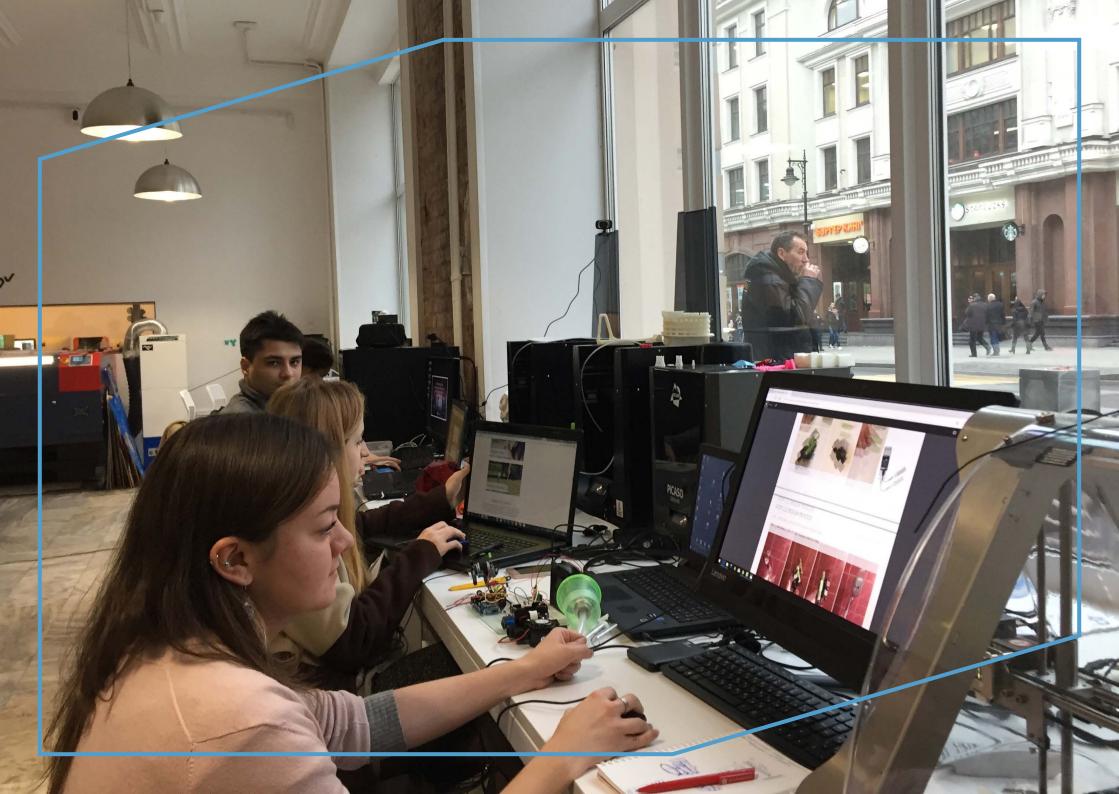
Bruno Moser Foster + Partners

Thomas Ermacora Fab Lab London Jochen Schreer Expert on Water Cycles, IAAC

Mitchell Joachim New York University

Christian Fröhlich HSE School of Sociology

John Mitchin Green Fab Lab Barcelona



HOW TO APPLY

Application link:

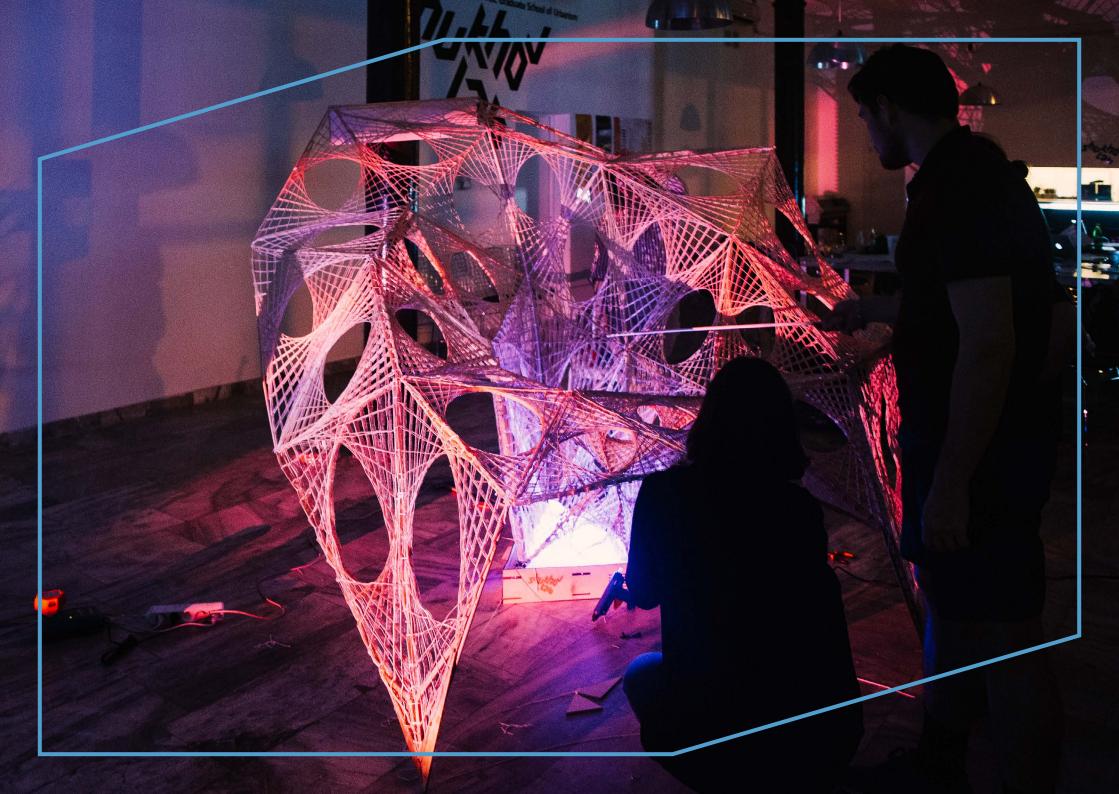
https://www.hse.ru/en/ma/techcity

What documents do I have to submit?

1.	Copy/scan of your valid passport
2.	Certified copy of your Bachelor's and/or Master's degree
3.	Certified copy of your Transcript of Records/list of grades
4.	Resume/Curriculum vitae
5.	Two letters of recommendation
6.	Motivation letter

Admission requirements and portfolio items:

1. Properly recognized diploma or certificate + transcript	2. Two letters of recommendation (in English)
If you have not yet received your Bachelor's diploma, please include an official copy of your most recent academic transcript.	A typical letter of recommendation should contain referee's: full name, position, workplace, academic degree, phone number, email.
0 - 20 points	0 - 10 points
3. Resume / CV (in English)	
5. Resulle / CV (III English)	4. Motivation letter (in English)
Please, submit a standard CV, which should include, at a minimum, your	This letter (1,5-3 pages) should de- scribe your reasons for applying
educational achievements, work and research experience, publica- tions (if any), and language skills.	to this program, in the context of your long-term career goals and background.
0 - 10 points	0 - 30 points
5. Interview (in English) with the program curator or/and program academic supervisor	All document should be prepared in English.
Key criteria: erudition; critical literature review; spoken English; clarity of intent; interest in the topic; basic research and design skills.	
0-30 points	



CONTACTS

www.hse.ru/en/ma/techcity

Shukhov Lab - HSE Laboratory for experimental urban design Address: 20 Myasnitskaya ulitsa, Moscow 101000 Russia

Email: aatikhonova@hse.ru Alexandra Tikhonova, program manager

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