



POLYTECH

Peter the Great
St. Petersburg Polytechnic
University



POLYTECH

Advanced Manufacturing
Technologies Center
National Technology Initiative



POLYTECH

Institute of Advanced
Manufacturing Technologies



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Graduate School
of Technology Entrepreneurship

Master degree program
“Technology leadership and entrepreneurship”

information&Key facts

Admission requirements: Candidates are required to hold a Bachelor's or Master's degree in any subject area, all applicants must demonstrate English language proficiency at B+ level

Admission tests Examination in the field of entrepreneurship and interview in English language with program coordinator (option – via Skype)

Admission procedure Written online application. International applicants may find additional information concerning admission at the official website of SPbPU english.spbstu.ru

Duration of program 2 years

Tuition fee 286,000 rubles a year for international students.

Master degree program name: “Technology leadership and entrepreneurship” (international educational program).

Area of study: “Launching and managing knowledge-intensive production ventures”

Award: Master of science (MSc)

Mode of study: Full-time

Language: English



Program outline: The program is designed for students aiming at pursuing an entrepreneurial career. It allows them to initiate and carry out genuine entrepreneurial projects.

The program consists of two main tracks: Entrepreneurship (tech) and Intrapreneurship. It offers an unique opportunity to turn students' technology business ideas into successful start-ups (Entrepreneurship (tech)) yet to develop leaders and professionals inside the innovative ventures (Intrapreneurship).

Why Technology leadership and entrepreneurship program?

- Possibility to choose the most suitable educational track for you:

Track 1 – Entrepreneurship (tech)

Track 2 - Intrapreneurship

There is a Start-up accelerator for students who will take track 1

- Leading Russian and international professors, coaches, business angels and guest lecturers will help students to build entrepreneurial or intrapreneurial career
- Internship in Russian leading technological companies: CML (<http://en.fea.ru/>), BIOCAD (<http://biocadglobal.com>) and others
- REAL PROJECTS: unique opportunity to start and develop your own business or to take part into the real industrial project
- A semester abroad, double degree opportunities (Germany, England and other countries).
- We provide mentors for students who want to make their own start-up
- The program has a supervisory council which includes leading experts in innovative and industrial business



This program takes place in St. Petersburg, one of European's most beautiful university cities and a high-tech hotspot in Russia. Students will live and study in the designated "cultural capital" of Russia.

St. Petersburg attracts people from all over the world with its unique atmosphere and job opportunities.

Semesters

I semester

Modules and disciplines	Workload, credits
1. Venture campus group project (Global Entrepreneurship)	5
2. Entrepreneurial thinking and competences	7
Entrepreneurial competencies development	3
Leadership, communication skills and teambuilding	4
3. Technologies of the future and opportunities recognition	12
Opportunities recognition and ideation of technology venture	3
The markets and technologies of the future	4
Digital production and basics of computer engineering	5
4. Innovation product new business REAL PROJECT	6

II semester

Modules and disciplines	Workload, credits
5. Commercializing advanced technology and innovation product management	10
Innovation product management	3
Commercializing advanced technology and venture business planning	3
IP-management	4
6. Analytical methods of decision making and master research	10
Analytical methods of decision making and entrepreneurship research	4
Master research	6
7. Track choice №1	
1. New venture co-creation education (incl. acceleration program)	
Design thinking and business models (4 credits)	4
2. Intrapreneurship	
Innovation management and open innovations (4 credits)	
8. Track choice №2 (Practice/Internship)	
1. New venture co-creation education (incl. acceleration program)	
New venture business planning (START-UP practice)	6
2. Intrapreneurship	
Existing business development REAL PROJECT (Internship)	

Semesters

III semester

Modules and disciplines	Workload, credits
9. Track choice №3	18
1. New venture co-creation education (incl. acceleration program) Value creation, differentiation and sales (3 credits) Managing new venture growth and venture capital (4 credits) Social and sustainable innovation (3 credits) Entrepreneurial marketing (3 credits) HR-management (5 credits)	
2. Intrapreneurship Project management (3 credits) Finance and venture capital (4 credits) Innovation supply chain management (3 credits) Marketing of innovations (3 credits) Logistics (5 credits)	
10. Internationalization REAL PROJECT (Practice)	5
11. International seminar – master research work on thesis planning	4

IV semester

Modules and disciplines	Workload, credits
12. Master thesis or internship	9
1. New venture co-creation education Master thesis practice in SPbPU's Technopark	
2. Intrapreneurship Master thesis internship in innovative companies (BIOCAD, CML and other innovative companies)	
3. International research Master thesis practice in Russian-German center for innovation and entrepreneurship Polytech Strascheg	
13. Master thesis research	18
1. New venture co-creation education Business plan (incl. empirical research)	
2. Intrapreneurship Consultancy project	
3. International research Entrepreneurship research with publication in international journals	
14. Final assessment	6

Total workload:

120

1st term Leadership & Action Learning

Global Entrepreneurship	Entrepreneurial thinking and competences	Opportunities recognition and technologies of the future
		Innovation product new business REAL PROJECT (based on CML)

2nd term Innovation & Self determination

Commercializing advanced technology and innovation product management	Entrepreneurship (tech)	
	Design thinking & business models	New venture business planning REAL PROJECT
	Intrapreneurship	
	Innovation management	Existing innovative business REAL PROJECT (based on BIOCAD)

Start-up accelerator (Polytech Strascheg, Business incubator)

3rd term Entrepreneurship & Intrapreneurship

Internationalization REAL PROJECT	Entrepreneurship (tech)	5 elective subjects
	New venture co-creation education	
	Intrapreneurship	5 elective subjects
	Co-creation education	

4th term Master thesis

Entrepreneurship (tech)
Business plan (incl. empirical research)
Intrapreneurship
Intrapreneurship in innov. companies & consultancy project
Entrepreneurship research
Research with a publication in international journals

Start-up accelerator (Polytech Strascheg, Business incubator)

Team



Sergei Salkutsan

Executive director -
Institute of Advanced
Manufacturing
Technologies



Prof. Dr. Klaus Sailer

Visiting professor from
the Munich University of
Applied Sciences, CEO of
the Strascheg Center for
Entrepreneurship (SCE)



Dmitrii Gavrillov

CPIM, CSCP, SCOR-P, APICS
Master CPIM Instructor, APICS
Associate CSCP Instructor, APICS
Associate Instructor Training, The
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Deputy director for
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Olaf Hauer

Managing Partner of
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Visiting Professor to Peter
the Great St. Petersburg
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Alexey Efimov

Executive director of the Russian-
German Center for Innovation
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Oksana Evseeva

CEO of Investment Partners Union
Managing partner for real estate
at Rostelecom
Deputy director on organizing
practices High School of Business
Management, IIMET, SPbPU,
ass.professor ,PhD



**Alexandr
Gavrushenko**

Head of business incubator



Anton Ambrajei

Deputy head of SAP Academic
Competence Centre

Are you curious of starting career in innovative technology sphere?

We are ready to teach you how to think and act like an innovative entrepreneur or how to be an intrapreneuer in high-technology ventures!

Taking into consideration, the emergence of new technologies and constantly changing of our environment which leads to uncertainty, there is a huge need for people with entrepreneurial skills who can answer these challenges. Companies are looking for employees who can generate new ideas easily, ready to learn fast and to adapt easily for everyday changing situation.

This program gives you the unique opportunity to start and develop your own business while study at the university with the support of the best experts in technology entrepreneurship. If you do not have business ideas at the beginning of the master program, you have an alternative to learn how to be intrapreneur and to work within already existed business.

The first term is a broad view on what you will do during your master. Firstly, we provide some courses for **personal development**. You will know **how to be a leader** and find your own way in world. Every educational block is reflection of studying philosophy “Learning by doing”. All students will get a possibility to work in a team on a **real project** to present it in the end of the semester.

Starting from the second term we divided program into 2 tracks: **Entrepreneurship (tech) and Intrapreneuship**. Now you may continue working on your own idea or start learning about intrapreneuship. During the whole semester students from Track 2 will have internship in the already existed business. Students who chose Track 1 will work on their own projects.

Running into the third semester you have to make decision which track is more convenient for you. Both tracks are focused on **co-creation education**. You continue working on your business project or developing existing project. All students will learn how to internationalize the business and make it successful in global market.



Your master thesis can be a business plan of your venture, a consultancy plan for a company or research work on Entrepreneurship. From the last semester you can select the other track – **Entrepreneurship research**. It is designed for students who are interested in scientific research of entrepreneurship.

Throughout 2 years you'll work with your team on developing your own new business idea with the help of the start-up accelerator. Experienced coaches and mentors will help and challenge you on the way to make a successful career.



Our partners





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