Vision - 5 Years Later



Skolkovo Institute of Science and Technology

- Focus on nurturing and fostering Russian scitech elite
- New model for science and technology higher education in Russia
- An international institute integrated with society and industry
- Center of gravity for East and West, to accumulate ideas, educational/ scientific methods, practices and more



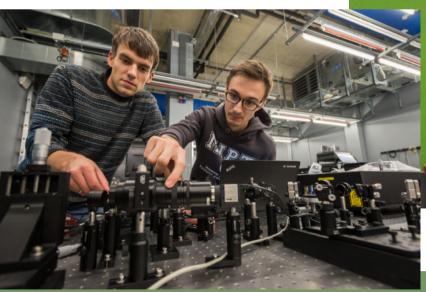
Education – At a Glance



Skolkovo Institute of Science and Technology

704 students
427 MSc
277 PhD
Gender Ratio
68% Male
32% Female
16% International Students
104 Faculty
170 Courses









Skolkovo Institute of Science and Technology

Strategic Initiatives - Academic Excellence

- Develop globally competitive academic programs
- Implement new technologies and practices to educate *centennials* (*digital natives*) effectively
- Create a unique educational environment a "Learning Commons" of physical and digital environments
- Foster student success

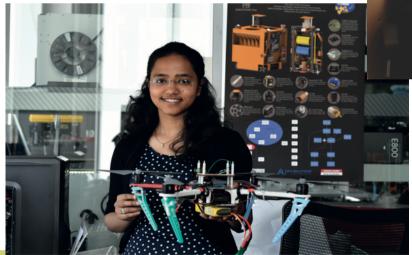


Educational Programs Portfolio Skoltech

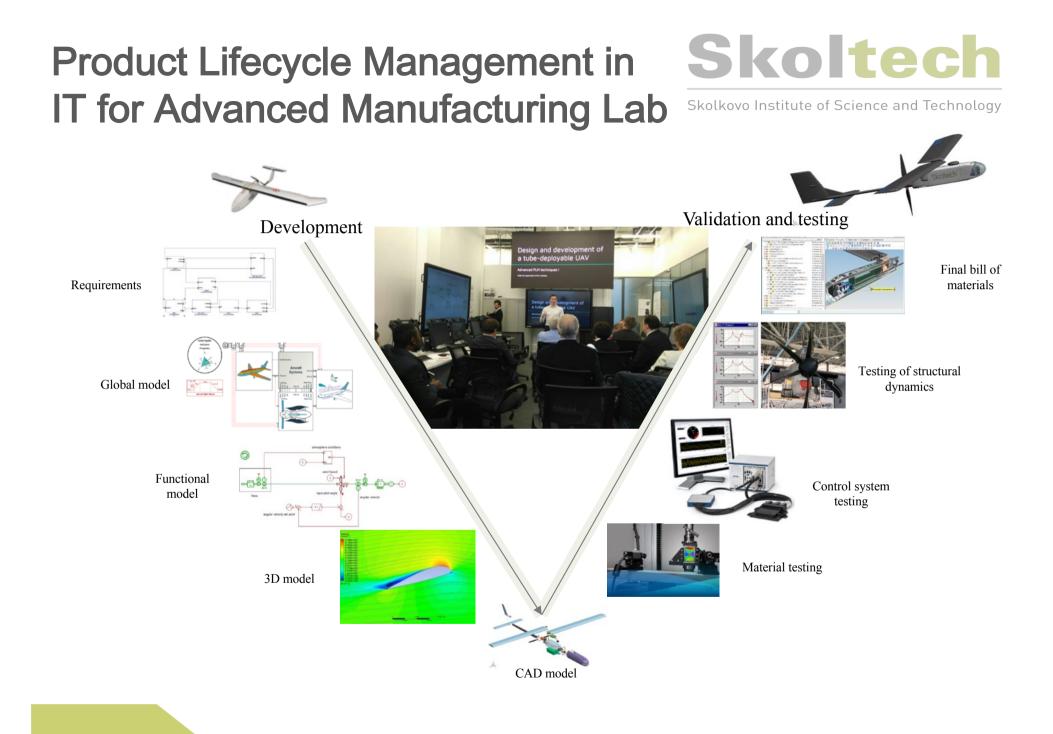
Target Domains	MSc programs	PhD programs
Life Sciences and Biomedicine	Biotechnology	Life Sciences
Data Science and Al	Data Science	Computational and Data Science and Engineering
	Computational Science and Engineering	
Cutting-edge Engineering and Advanced Materials	Space and Engineering Systems Advanced and Digital Engineering	Engineering Systems
	Technologies	
Energy Efficiency	Petroleum Engineering	Petroleum Engineering
	Energy Systems	
	Materials Science	Materials Science and Engineering
Quantum Technologies	Photonics and Quantum Materials	Physics
Advanced Studies	Mathematical and Theoretical Physics	Mathematics and Mechanics

Research Facilities

- Electrochemical Energy Storage Lab
- IT for Advanced Manufacturing Lab
- Concurrent Engineering Design Lab
- Hybrid Photonics Lab
- Hydrocarbon Recovery Lab
- Intelligent Space Robotics Lab ٠
- Mass Spectrometry Lab ۰
- Energy Systems Lab
- Nanomaterials Lab







Library / E-Resources

Skoltech

Skolkovo Institute of Science and Technology

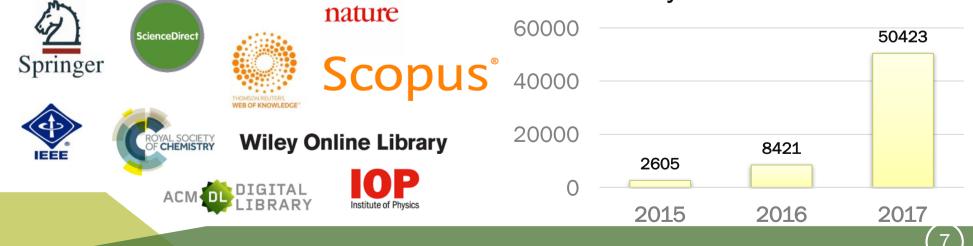
Library serves as a central "Learning Commons" on Campus:

- Non-facilitated collaborative learning
- Social interaction
- Intense individual study

600 sq. m. accessible 24/7



Library full-text downloads



Active Learning – Examples



Skolkovo Institute of Science and Technology

Independent Study Period

40 courses (mostly student-led): (1) professional hard skills; (2) E&I and soft skills; (3) enjoyable active learning



Innovation Workshop

Intense course to foster innovators, focusing on team work, group projects and sparking entrepreneurial instincts



Student Future Career Development – Industrial Immersion





Giving students a deep vision of industry



2-month projects in high-tech companies, co-supervised by Skoltech faculty



"Big Industry Day" – presentation of final results





Skolkovo Institute of Science and Technology







2017:75 companies,116 projects

International Experience



Skolkovo Institute of Science and Technology

270 students in 2017 in 20 countries at over 80 host universities



Sergey Shmakov (Skoltech PhD 2017) National Institutes of Health (NIH, Bethesda, USA) Director's award 2016 for CRISPR-Cas research



