



PETER THE GREAT ST. PETERSBURG POLYTECHNIC UNIVERSITY



POLYTECH

Peter the Great
St. Petersburg Polytechnic
University

Joint Students Project Marathons



International scientific students' seminar "Computer Based Construction Management"



Joints research projects in the framework of The WC2 Network

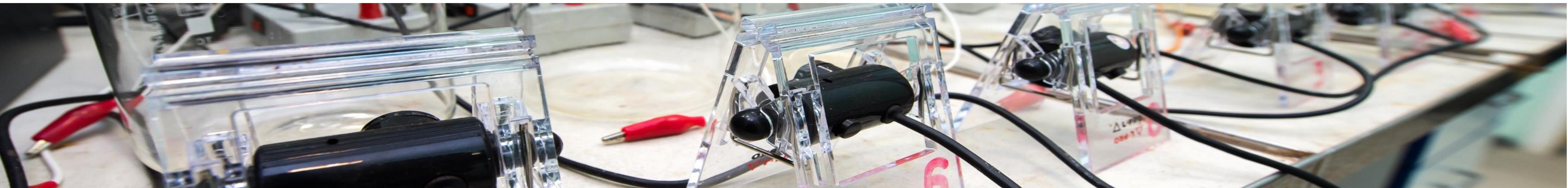


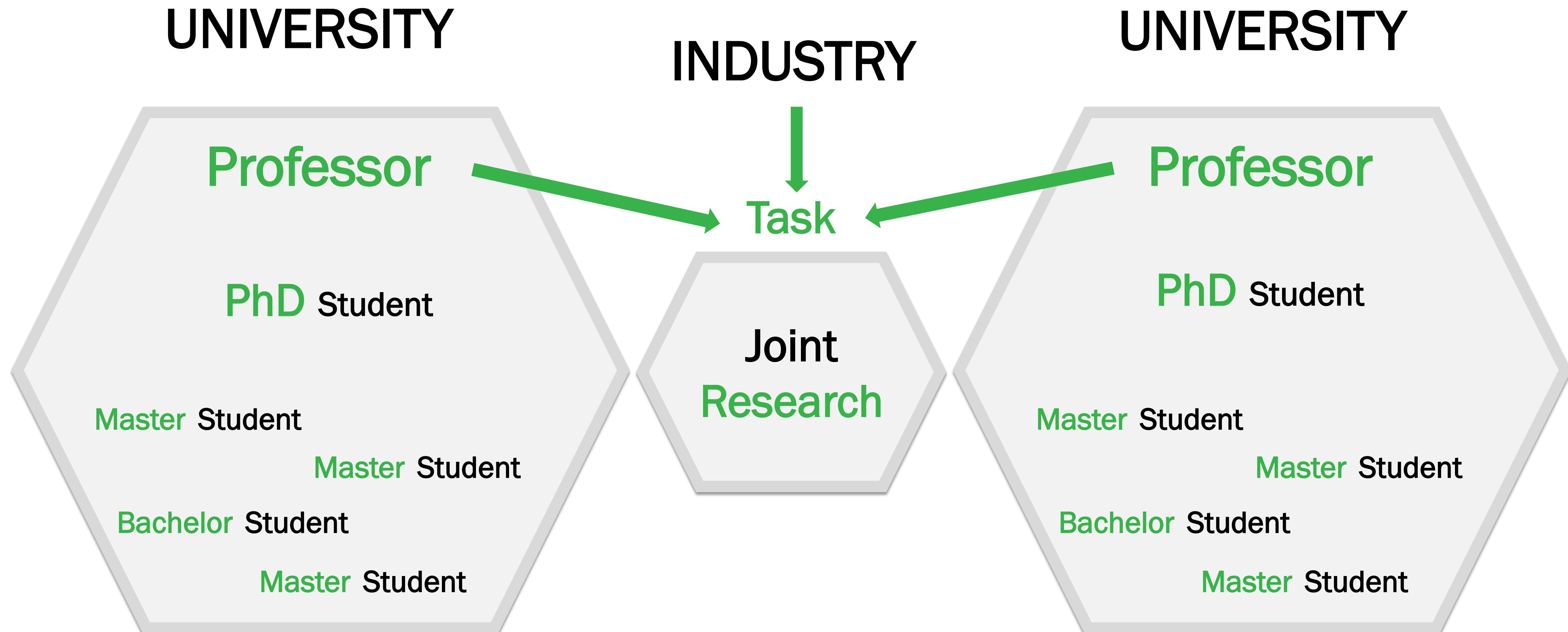
Cooperation with Industrial Enterprises

CBCM-seminar

WC2 University
Network

SIEMENS





Objectives of the project

- uniting of young scientists from different countries, creating sustainable long-term scientific relationships, retaining talents
- development of academic mobility
- research results and joint publications

Participants

- world's leading universities, SPbPU strategic and key partners
- R&D centers and laboratories, Russian and international industrial companies and business communities



Benefits for students

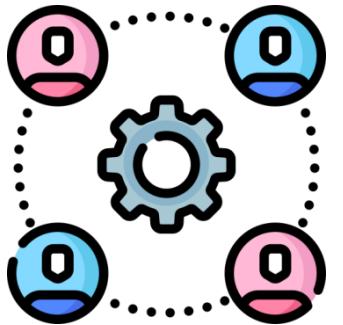
- ✓ Project research experience
- ✓ International team experience
- ✓ Intercultural and interdisciplinary communication
- ✓ Increase the employability and opportunities of successful scientific career



Benefits for the university

- ✓ Sustainable long-term relationships between scientific groups
- ✓ Quality of education, involving students in science
- ✓ International reputation
- ✓ International projects and grants, joint publications
- ✓ Cooperation with industry
- ✓ Academic mobility, visiting professors program

PROJECT-ORIENTED EDUCATIONAL METHOD



Mixed international team: bachelor and master degree students, PhD, professors from partner universities



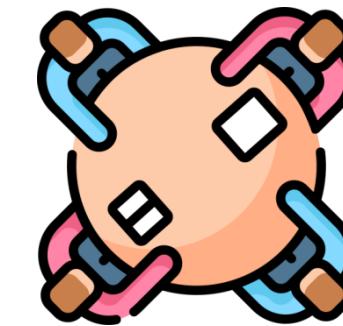
Project task: meet current scientific and technological topics, is in demand by the industry, and correspond to the key directions of the world science development



Joint research: research and experiments, sample testing, development of new technologies



Mutual mobility: collaborative learning, intercultural communication, research work in a partner laboratory, teaching as visiting professors



Summing up: project results are evaluated by members of the expert commission - professors of both universities, representatives of customers, investors, and external experts

International scientific students' seminar "Computer Based Construction Management"



2018



2019

Joint Students Project Marathon with TU Graz



2020





6
Applications
for
international
grants

16
PROJECTS

95
Participants

9
Publications

7
Erasmus+
mobility grants

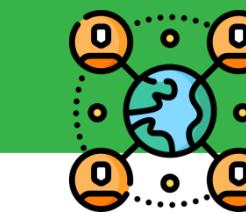
8
International
conferences

STUDENTS PROJECT MARATHON IS A SPECIFIC EDUCATIONAL FORMAT

Practice-oriented approach, high level of scientific research, advanced experimental equipment



Development of language, intercultural, communication and soft skills



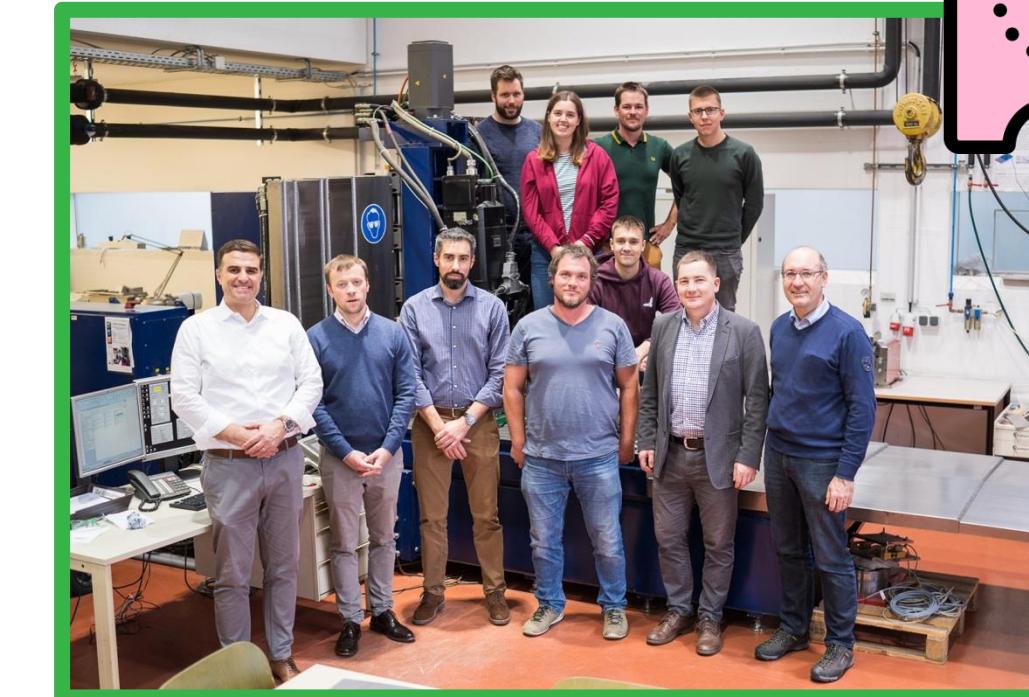
Students achieve set of indicators that are important both for their personal growth and for the university in general



Combination of distance (70% -100%) and full-time (0-30%) learning, flexibility, individual tracks



Combination of scientific, research, experimental and entrepreneurial components in one educational course



I worked on a project connected with non-relational databases. Such databases are optimized for applications that work with large amounts of data. At first, I was a little nervous, as this was a completely new topic for me, and in our team I was the only participant from Polytechnic University. But when we got to work, all the fears stayed behind. Together with my colleagues, we jointly looked for solutions for emerging problems, explained things to each other, and could easily find compromises.



Not all students have the opportunity to work in laboratory every day. And if after graduation they want to continue to develop in the scientific area, the project marathon will be an ideal opportunity to plunge into the world of science and research. I established some scientific contacts during visits to other laboratories. I do not know what these people will do later, and I do not know how our students will develop. But it is likely that after many years they will meet again - for example, as academic partners. And it would be great if by then they would have such a common story.

During the project, we compared two types of welding: laser and electro-beam. To do this, we conducted experiments in Russia and in Austria. The student marathon impressed me a lot, and I sincerely advise students to take part in such projects. This is your chance to acquire important knowledge not only in your discipline, but also from related fields, as well as to receive a powerful impetus for self-development



THANK YOU!

Lana Kalikina

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