Strategic Partnership in Brief

"Strategic Partnership" is based on the long-lasting tradition of joint cooperation between SPbPU and LUH.

The partnership of these two universities began in 1984 and brought a huge value for both parties during the past almost 30 years of active development. Long-term cooperation gives the ground for concentration of resources and force in the respect of partnership in the sphere of education and research.

The higher education profiles of both universities are very much similar and in many aspects supplement each other. This synergy refers, first of all, to civil, mechanical and electrical engineering, where the fundamental and theoretical research in SPbPU is well supplemented by the applied orientation in Hannover.

Moreover, SPbPU as one of 29 National Research Universities in Russia is well equipped with the high-tech, modern innovative R&D laboratories and educational facilities. Since 2013 SPbPU is involved in Russian Academic Excellence Project "5-100-2020". Thus both Universities pay significant attention to the large-scale interdisciplinary projects. Their key focus areas for further development are mechatronics, quantum physics, material science, energy-, nano- and laser technologies. Besides R&D and educational development, the objective of both universities is to strengthen their internationalization of education, research and administration.

Strategic Targets of the Partnership:
1. Involving of young scientists
2. Cooperation expansion: involvement of further structural units of both universities; extension of activities – master and PhD exchanges, joint academic programs
3. Focus on interdisciplinary research projects and research associations, which will allow to attract resources of industry
4. Strengthening of scientific potential by merging theoretical knowledge with experimental facilities
5. Increasing the number of highly qualified applicants for the join programs
6. "Brain drain" prevention: establishing equivalent mobility exchange
7. Attracting industry into the cooperation
8. Cooperation with external research institutions
9. Strengthening of cross-cultural skills
10. Improving the visibility of the cooperation on the national and international level.

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Information about the Strategic Partnership can be found at:
http://www.international.uni-hannover.de/strategie.html
Divisions of LUH involved:

- Institute of Materials Science
- Institute of Turbomachines and Fluid Dynamics
- Institute of Transport and Automation Technology
- Institute of Mechanics and Computational Mechanics
- Institute of Fluid Mechanics and Environmental Physics in Civil Engineering
- Institute of Metal Forming and Metal Forming Machines
- Laser Zentrum Hannover/Institute of Quantum Optics
- Institute for Multiphase Processes
- Centre for the Didactics of Engineering
- Institute of Physical Chemistry
- Institute of Micro Production Technology
- Institute of Electrotechnology
- Faculty of Economics and Management
- Centre for Applied Linguistics and Special Languages
- International Office
- German National Library of Science and Technology

Key subject areas:

- Energy Technology, Energy Efficiency and Environmentally Friendly Technologies
  - Energy technology and electricity: power stations, high voltage equipment, electrical engineering, electrical systems and networks
  - Power mechanical engineering: turbines and compressors engineering, chemical and oil mechanical engineering
  - Environmentally friendly power engineering, technical safety
- Civil Engineering
  - Technology, organization and economics of construction
  - Civil engineering and applied ecology
  - Water-resources development and landscaping, agricultural water management
- Information, Computation and Telecommunication Technology, Intelligent System
  - IT, computational technologies and information systems
  - Applied mathematics, computational mechanics, systems analysis, automation
  - Information and management systems, intelligent systems
  - Mathematics and software engineering, grid technologies
  - Telecommunications, optics, radiophysics and microelectronics
- New Materials and Technologies, Nanotechnology
  - Material science, steel and alloys, composite materials, nanomaterials and nanotechnology, powder metallurgy, welding and laser technologies
  - Solid state physics, laser physics, semiconductor physics, micro and nanoelectronics, chemical technologies, nanobiotechnology
- Language and cultural studies
  - German and Russian language skills
  - Intercultural Communication
- Internationalization
  - Education
  - Research
  - Administration
  - Marketing

Key activities:

- Creating research consortia for R&D funding application submission
- Combining research projects and industrial expertise
- Developing joint postgraduate programs and studies
- Promoting young scholars and researchers
- Establishing a number of joint degree MSc programs
- Joint publications
- Joint participation in international exhibitions and conferences
- Academic staff exchange
- Student mobility
- Applied joint workshops on focused topics.

Divisions of SPbPU involved:

- Institute of Applied Mathematics and Mechanics
- Institute of Metallurgy, Mechanical Engineering and Transport
- Institute of Energy and Transport Systems
- Institute of Civil Engineering
- Institute of Physics, Nanotechnology and Telecommunications
- Institute of Industrial Economics and Management
- Institute of Computer Science and Technology
- Institute of Humanities
- Institute of International Educational Programs
- International Office
- Information and Library Complex

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