

International Polytechnic Summer School "Additive Manufacturing and Joining Technologies"

Peter the Great St. Petersburg Polytechnic University

Degree or qualification is awarded: **Internationally Recognized SPbPU Certificate with list of completed courses, grades and ECTS**

Language of study: **English**

Mode of study: **full-time**

Duration: **2 weeks**

Availability of free education: **no**

Price: **540 Euro**

Programme webpage at the university website:

<https://english.spbstu.ru/education/programs/short-term-programs/summer-school/design/additive-manufacturing-joining-technologies/>

Programme curator: **Department of International Educational Programs**

Tel.: **+7 (812) 534-25-31**

E-mail: summerschool@spbstu.ru

This is a joint program developed in cooperation with Ecole Polytechnique (France). The School provides the unique opportunity to attend intensive academic program, which is focused on the additive manufacturing (AM) and joining techniques (JT) with experience of professors from European countries, with different opinions and approaches. The two-weeks School is divided in two blocks: Basics and Advanced. First block will give you the theoretical knowledge, basic descriptions of the technologies and an overview of their applications. Second block consists in advanced topics on these technologies based on state-of-the-art practice based activities in research laboratories and deep aspects of the material microstructure evolutions during processing. The program will cover: AM and JT, powder production and characterization, metallurgical and mechanical properties, residual stresses and post-treatments, topological optimization. The school program is suitable for students and engineers interested in these technologies and topics. All studies are developed in accordance with the European requirements and can be recognized as a period of study abroad.

Program dates:

Arrival: July 05 – 07, 2019

Classes: July 08 – 19, 2019

Departure: July 20 – 23, 2019

Duration: 2 weeks

Ects credits: 5.0

Participation fee:

- Early bird fee: 510 euro
- Regular registration fee: 540 euro

Participation fee includes tuition fee, study materials, visits to companies and cultural program.

The cultural program includes:

- Boat city tour for students to get acquainted with the beauty of the city.

- Excursion to the Hermitage, one of the world's largest and oldest museums of fine art.
- Pub Quiz in the city center of St. Petersburg.
- Visit to the "Baltika" Brewery/"Coca-Cola" factory where students can learn about the construction and logistic peculiarities of the plant.
- Visit to the Baltic Industrial Company (<http://bpk-spb.ru/en/>), a modern research and production complex, one of the leaders in the development and implementation of solutions for equipping enterprises with modern and reliable metalworking equipment
- Excursion to Pushkin, former tsar summer residence famous for its palace and park ensemble. Students will visit the outstanding Catherine Palace with glorious Amber room (optional, for extra price).
- Excursion to Peterhof palace-ensemble with picturesque gardens, a countless number of fountains and giant golden statues (optional, for extra price).




Deadline for registration

Early bird deadline - March 25, 2019

Regular deadline

- for non-EU citizens: April 22, 2019
- for EU-citizens and citizens of visa-free countries: May 27, 2019

Professors and lecturers

 Patrice Peyre, senior research scientist, CNRS, Arts et Metiers ParisTech, France;
 Daniel Weisz-Patrault, research scientist, CNRS, Ecole Polytechnique, France;
 Eric Charkaluk, director research CNRS, Ecole Polytechnique, France;
Aude Simar, associate professor, Catholic University of Louvain, Belgium;
Anton Naumov, associate professor, Polytech, Russia;
Oleg Panchenko, associate professor, Polytech, Russia.

Program partners:

 **Ecole Polytechnique (France)**

Specializations within this programme