

TFK-ohjelmasta 2021 tuetut hankkeet

TFK programme funded projects 2021

Project title: 2D and 3D in Physics	
<p>Coordinator</p> <p>Lappeenranta-Lahti University of Technology LUT</p> <p>Erkki Lähderanta erkki.lahderanta@lut.fi</p>	<p>The project aims at expanding and reinforcing academic ties between Lappeenranta University of Technology (LUT), University of Eastern Finland (UEF), Peter the Great Saint Petersburg Polytechnic University (SPbPU), and Chelyabinsk State University (CSU). The project will be built on the existing teaching and research collaboration between the partners. The creation of new joint educational programs, as well as online courses, will help strengthen cooperation between countries. Supporting student and staff mobility will contribute not only to the exchange of learning experiences, but also to the improving cultural ties between Finland and Russia and sharing good practices between partner Universities. The achievement of the project goals includes the accomplishment of the following tasks: 1. Building a Double Degree (2D) Masters program between LUT and CSU; 2. Building a Double Doctoral Degree (3D) program in Physics between LUT and SPbPU; 3. Building a Double Doctoral Degree (3D) program in Physics between UEF and SPbPU; 4. Building a Double Doctoral Degree (3D) program in Physics between LUT and CSU 5. Creation of joint online courses at Doctoral or Master level.</p>
<p>Partners</p> <p>University of Eastern Finland, Peter the Great Saint Petersburg Polytechnic University , Chelyabinsk State University</p>	<p>The project activities will include setting the joint curriculum and online courses, creation of double degree programs and joint research. These activities will be supported by both long-term and short-term visits between partners. Long-term mobility will correspond to participating in 2D and 3D programs, short-term mobility will be associated with summer schools or trainings. Staff mobility will help to control the project implementation and to solve current tasks. Project will contribute to: (1) enhancing cooperation and transfer of knowledge between involved universities and disciplines; (2) increase in international and interdisciplinary mobility of young and experienced researchers in Finland/Russia and thereby to widening the research area; (3) increasing employability of the Master and PhD students involved. Anticipated results of the project includes 2-4 Master degrees (2D)</p>

annually, 3 Doctoral degrees (3D), and setting 2-3 joint courses on the Master and Doctoral levels. We expect that PhD/MS students training, knowledge transfer, networking and dissemination activities will be sufficient added values of the project. Being based on 2D3DPhysics outcomes several joint submissions to Horizon Europe calls is foreseen (researchers exchange; doctoral network, RIA addressing societal challenges). In accordance with Finnish universities strategies 2D3DPhysics will address the global challenges towards courageous, open and responsible universities with the focus to Sustainable Development Goals. The best academic learning environments will be built around innovative teaching methods, research-based education, and culture of teaching with flexibility, inspiration in mind, as well as open science and technology.



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