<table>
<tr><td>University</td><td>Peter the Great St. Petersburg Polytechnic University</td></tr>
<tr><td>Level of English proficiency</td><td>Fluent</td></tr>
<tr><td>Courses and fields of studies offered for applicants</td><td>2.1.1. Construction, Buildings and Structures
2.1.2. Bases and Foundations, Underground Structures
2.1.6. Hydrotechnical Construction, Hydraulics and Engineering Hydrology</td></tr>
<tr><td>Projects for potential academic supervision</td><td>Stochastic methods for determining loads,
Dynamic models of ice impacts,
Models of freezing in ice</td></tr>
<tr><td>Topics offered for prospective researches</td><td>Numerical methods for calculating ice loads,
Constructions in cold environment (Arctic)</td></tr>
<tr><td rowspan="4"> 
Research supervisor:
Sharapov Dmitry,
PhD in Marine and Coastal Management, PhD in Engineering (Peter the Great St. Petersburg Polytechnic University)</td><td>Construction & building technology</td></tr>
<tr><td>Supervisor’s research interests
Numerical modeling, Arctic constructions, ice impacts, soil foundations, ice loads, wave loads</td></tr>
<tr><td>Study program highlights
Development of numerical models of ice impacts</td></tr>
<tr><td>Supervisor’s specific requirements:
Preliminary research plan on a chosen topic.
At least basic knowledge of the planned research topic.
Desire and knowledge on how to publish articles.</td></tr>
<tr><td></td><td>Supervisor’s publications
1. Sharapov D.A., Sumtsova, A.S. Rockfill Stability to Ice Shearing by the Finite Element Method. Power Technol Eng (2023). https://doi.org/10.1007/s10749-023-01646-1
2. Andreeva S.A., Sharapov, D. Hoek–Brown model for ice breaking simulation. Magazine of Civil Engineering. 2023. 123(7). Article no. 12303. DOI: 10.34910/MCE.123.3
3. Sharapov D., Improving quality of 2D ice load estimation on freezed piles / D. Sharapov, Y. Klochkov // International Journal for Quality Research. – 2023. – Vol. 17, No. 4. – P. 1141-1150. – DOI 10.24874/IJQR17.04-11
4. Sharapov D., Water circulation to improve the quality of port ice management, International Journal for Quality Research v18, n2, 2024, DOI: 10.24874/IJQR18.02-18
5. Sharapov, D. A. Features of the Calculation of Ice Load Due to Thermal Expansion / D. A. Sharapov, S. A. Andreeva // Power Technology and Engineering. – 2024. – Vol. 57, No. 5. – P. 697-704. – DOI 10.1007/s10749-024-01721-1.</td></tr>
<tr><td></td><td>Impacts of Supervisor’s research
1. Sharapov, D. A. Freezing of marine and river hydraulic structures into ice / Book, D. A. Sharapov. - St. Petersburg: Federal State Autonomous Educational Institution of Higher Education "Peter the Great St. Petersburg Polytechnic University", 2023. - 167 p. - ISBN 978-5-7422-8232-7.
2. Computer program No. 2023664429 Russian Federation.</td></tr>
</table>

	Hydrotechnical construction - ice reinforcement: No. 2023663862: declared. 04.07.2023: published. 04.07.2023 / D. A. Sharapov, S. A. Andreeva. 3. Computer program No. 2023664430 Russian Federation. Hydrotechnical construction – ice berth: No. 2023663863: declared 07/05/2023: published 07/05/2023 / D. A. Sharapov, S. A. Andreeva. 4. Computer program No. 2023615538 Russian Federation. Hydrotechnical construction - ice engineering laboratory: No. 2023614672: declared 03/16/2023: published 03/16/2023 / D. A. Sharapov. 5. Computer program No. 2024610262 Russian Federation. Ice Rubble Recognition: No. 2023688594: declared 12/19/2023: published 01/09/2024 / D. A. Sharapov; applicant Federal State Autonomous Educational Institution of Higher Education “Peter the Great St. Petersburg Polytechnic University”.