University	Peter the Great St.Petersburg Polytechnic University
Level of English proficiency	Upper Intermediate
Courses and fields of studies offered for applicants	1.6.21. geoecology *(field of the educational program)*
Projects for potential academic supervision	Development of methods for monitoring the state of the environment when exposed to PVC-based microplastics. Development of biosensors based on new materials. Modeling of soil pollution by microplastics Development of methods for recycling plant waste Development of oil sorbents for regions with hot climates
Topics offered for prospective researches	Development of methods for monitoring the state of the environment when exposed to harmful and hazardous substances. Development of biosensors based on new materials. Modeling of soil pollution by microplastics Development of methods for recycling waste of various origins (plant, construction, polymer) Development of oil sorbents for regions with different climates
 Research supervisor: Uspenskaya Mayya, Doctor of Science, professor PD (1998, ITMO University, thermal physics and molecular physics). Doctor of Technical Science (2009, Saint Petersburg State Technological Institute (Technical University), technology and processing of polymers and composites.	*Environmental Engineering* Supervisor's research interests polymers, ecology, waste recycling, sensor systems, environmental monitoring, eco-friendly materials. Study program highlights *(при наличии)* interaction with foreign scientists and research centers Supervisor's specific requirements: knowledge in the field of ecology, polymeric materials or modeling, must have the following qualities: responsibility, efficiency, discipline, initiative, and scientific ethics. Supervisor's publications the total number of publications in journals indexed by Web of Science, Scopus, RSCI over the past 5 years is more than 60. Vu T., Morozkina S.N., Sitnikova V.E., Nosenko T.N., Olekhnovich R.O., Uspenskaya M.V. The influence of acetic acid and ethanol on the fabrication and properties of poly(vinyl alcohol) nanofibers produced by electrospinning//Polymer Bulletin, 2024, 9669–9697 Ponomareva A.A., Laryushkina D.D., Logacheva D.A., Sitnikova V.E., Mokrin S.N., Uspenskaya M.V. Kinetic Parameters of Thermal Decomposition of Biofuels and Its Oil-Containing Composites//Solid Fuel Chemistry, 2024, Vol. 58, No. 1, pp. 72-79 Nosova A.O., Uspenskaya M.V. Ecotoxicological effects and detection features of polyvinyl chloride microplastics in soils: A review//Environmental Advances, 2023, Vol. 13, pp. 100437 Fabrication of electrospun nanofiber from a blend of PVC and PHB Le Quoc, P., Anuchin, D.V., Olekhnovich, R.O., Kremleva, A.V., Thanh, N.H. International Polymer Processing, 2024, 39(2), pp. 176–185

	PHB/PEG Nanofiber Mat Obtained by Electrospinning and Their PerformancesThanh, N.H., Olekhnovich, R., Sitnikova, V., Snetkov, P., Uspenskaya, M. Technologies, 2023, 11(2), 48