University	Peter the Great St. Petersburg Polytechnic University
Level of English proficiency	Elementary (A2)
the advectional program and field of	UDRANISM & CIVIL ENCINEEDING
which the applicant will be	2.1.1 Engineering constructions, buildings and structures
accepted	2.1.8. Design and construction of roads, subways, airfields.
accepted	bridges and transport tunnels
List of research projects of the potential supervisor (participation/leadership)	• Study of hands-on experience in the field of design and calculation of road payement of the sections of public roads
	 Development of road traffic management projects for the period of service
	• Study of cohesive strength in the adhesive joint
	"bitumen - mineral material" in the modification of bitumen
	• Conducting research on the physical and mechanical properties of materials, products and structures
	properties of materials, products and structures
List of the topics offered for the	
prospective scientific research	• Issues of substantiation of regulatory requirements for
	transport facilities (their technical characteristics and parameters)
	and transport infrastructure facilities
	• Development and improvement of theoretical and
	operation of transport facilities
	• Design of transport structures, their elements and objects
	of transport infrastructure, with taking into account the
	relationship between all components of natural and technical
	systems: material - product - design - structure - a complex of
	functionally related structures - man-made and natural
	• Improving methods for calculating constructions
	structures and their elements
	2.01. Transportation science & technology
	Supervisor's research interests Development and improvement of methods for substantiating the
	placement of transport structures and transport infrastructure facilities
190	in underground and surface spaces, taking into account the
	requirements of technical, environmental and social safety.
	Supervisor's main publications
	1 Lazarev Y Gravit M Dmitriev I (2019) Validation of
Har HAC IN DOTAL	the temperature gradient in steel structures under fire load
	in SOFiSTiK program software Advances in Intelligent
	Systems and Computing, Springer, Vol. 983, pp. 929-938
Research supervisor:	2019/ DOI: 10.1007/978-3-030-19868-8_92

Yuri Lazarev,	2. Lazarev, Y., Gravit, M., Serdjuks, D., Vatin, N.,
Dr. Tech. Sc., Professor, full member of the RAT (Russian Academy of Transport)	Yuminova, M. (2020). Single burning item test for timber with fire protection. Magazine of Civil Engineering. №03 (95), pp. 19-30, 2020
	 Lazarev, Y., Pinevich, E., Bolgarov, N., Altynov, D., Fatyushin, Y. (2021). Mathematical model of the influence of the rheology of lubricating compositions on the safety of rolling stock movemen. Journal of Physics: Conference Series, Volume 2131 022021
	 Lazarev, Y., Zanina, A., Radaev, A. (2022). Determination of the structure for the road construction machinery fleet on the basis of fractional linear optimization. Transportation Research Procediathis, 63, pp. 27–40
	 Lazarev, Y., Kirik, E., Bogdanov, A., Sushkova, O., Vitova, T., (2022). Fire safety in museums: simulation of fire scenarios for development of control evacuation schemes from the Winter Palace of the Hermitage. Buildings 2022, 12 (10), 1546; https://doi.org/10.3390/buildings12101546 (registering DOI) - 27 Sep 2022.