

Researcher profile (portfolio) form for potential research supervisors of postgraduate track participants in the Global Universities Association International Olympiad for graduate and postgraduate applicants.

University	Tomsk Polytechnic University
English language proficiency	B1
Applicant's postgraduate program	Analytical Chemistry
List of research projects of a potential research supervisor (participation/leadership)	Theoretical and methodological foundations of automated screening control of the state of water resources in remote areas of oil and gas production (leadership)
List of possible research topics	Screening control of oil pollution of water bodies. Complex characterization of the properties of humic substances and their biological activity. Assessment of sustainable development of regions.
 <p>Research supervisor: Sergey V. Romanenko, Doctor of Science (Tomsk Polytechnic University)</p>	Supervisor's research interests (detailed description of research interests): <hr/> analytical chemistry, analysis of environmental objects, energy efficiency
	Research highlights (if applicable): Specify the key highlights of the program that make it stand out from others. (Use of unique equipment, collaboration with foreign scientists and research centers, financial support for graduate students, etc.)
	Supervisor's specific requirements: This section is to be filled out if there are any requirements to a graduate student (required background/courses completed/methods learned/ specific software knowledge and skills, etc.)
	Supervisor's main publications (specify a total number of publications in journals indexed by Web of Science, Scopus, RSCI for the last 5 years, list up to 5 most significant publications with the publication details): 12 articles indexed by Scopus, including 5 articles indexed by Web of Science
	<ul style="list-style-type: none"> • Begun MV, Ledovskaya AM, Kupressova EA, Romanenko SV. Oil pollution prevention of natural waters by incident early detection on oil pipelines in water body crossing places. Chem Eng Trans [Internet]. 2018; 70:1003-8. Available from: www.scopus.com DOI: 10.3303/CET1870168 • Zykova MV, Schepetkin IA, Belousov MV, Krivoshchekov SV, Logvinova LA, Bratishko KA, Yusubov MS, Romanenko SV, Quinn MT. Physicochemical characterization and antioxidant activity of humic acids isolated from peat of various origins. Molecules [Internet]. 2018; 23(4) Available from: www.scopus.com doi:10.3390/molecules23040753 • Zykova MV, Brazovsky KS, Veretennikova EE, Danilets MG, Logvinova LA, Romanenko SV, Trofimova ES,

	<p>Ligacheva AA, Bratishko KA, Yusubov MS, Lyapkov AA, Belousov MV. New artificial network model to estimate biological activity of peat humic acids. Environ Res 2020;191. doi:10.1016/j.envres.2020.109999.</p> <ul style="list-style-type: none"> • Fan YV, Varbanov PS, Klemeš JJ, Romanenko SV. Urban and industrial symbiosis for circular economy: Total EcoSite integration. J Environ Manage 2021;279. doi:10.1016/j.jenvman.2020.111829 • Fan, Y. V., Romanenko, S., Gai, L., Kupressova, E., Varbanov, P. S., & Klemeš, J. J. (2021). Biomass integration for energy recovery and efficient use of resources: Tomsk region. Energy, 235 doi:10.1016/j.energy.2021.121378
	<p>Intellectual property rights (if applicable) (list key intellectual deliverables)</p>