


На английском языке:

University	National University of Science and Technology MISIS
Level of English proficiency	C1
Educational program and field of the educational program for which the applicant will be accepted	1.6.20 Geoinformatics and cartography Modeling of mineral deposits (field of the educational program)
List of research projects of the potential supervisor (participation/leadership)	<ol style="list-style-type: none"> 1. Development of the educational module "Digitalization" of the basic educational program on waste management in the closed-loop economy 2. Analysis of the properties of unoxidized ferruginous quartzites of the iron ore deposit and the level of quarry productivity at different time intervals 3. Creation of a three-dimensional digital geological model of the coal deposit in the GIS Micromine 4. Study of deposits of the autoclave storage facility filter cake 5. Identification of correlation dependencies between the indicators of drilling and blasting wells, ore characteristics and the level of productivity of the processing plant 6. Geological study of the subsoil site for the purpose of searching and evaluating deposits of common minerals - igneous and metamorphic rocks 7. Consulting services on geological, mining engineering analysis, as well as analysis of the prospects for the implementation of the enrichment process
List of the topics offered for the prospective scientific research	<p>3D modeling of deposits; quality management of mineral raw materials; geological support of open-pit coal mining at great depths; geological support for the development of technogenic mineral raw materials; research and processing of mining waste; engineering-geological and hydrogeological support of mining operations; development of systems for integrated monitoring of the condition of slope structures.</p>
	<i>Geology</i>
	<p>Supervisor's research interests: <i>geological and economic assessment of deposits, management and optimization of ore flows (mine to mill optimization), geometallurgy, modeling of geological objects and processes, evaluation of mining projects, processing and interpretation of geological data, engineering-geological and hydrogeological support of mining operations, research of man-made massifs (including for further use as man-made deposits), assessment of the stability of slope structures.</i></p> <p>Research highlights: - extensive experience of interaction with representatives of the real mining business in Russia and abroad; - availability of modern software for research; - availability of research equipment.</p>

<p>Research supervisor: Alexandra Lipina Candidate of Science/PhD NUST MISIS</p>	<p>Supervisor's specific requirements: <i>Student's desire to master new knowledge and conduct scientific research.</i></p>
	<p>Supervisor's main publications 1. Slope Monitoring Systems Design for Mining Enterprises Cheskidov, V., Grobler, H., Kurenkov, D., Lipina, A. E3S Web of Conferences, 2020, 174, 01025 2. Arctic zone of the Russian Federation: development problems and new management philosophy Kudryashova, E.V., Lipina, S.A., Zaikov, K.S., ... Yu. Kuprikov, M., Kuprikov, N.M. Polar Journal, 2019, 9(2), страницы 445–458 3. Modern methods of monitoring and predicting the state of slope structures Cheskidov, V., Kassymkanova, K.-K., Lipina, A., Bornman, M. E3S Web of Conferences, 2019, 105, 01001</p>
	<p>Results of intellectual activity (<i>при наличии</i>) <i>The past three years has participated in ten projects as a manager, executive officer or coordinator.</i></p>