University	National University of Science and Technology MISIS
English proficiency	A2
Postgraduate program	22.06.01 Materials technology
	Specialization: metal science and heat treatment of steels and
List of reasonable main sta	alloys
List of research projects	different scales during the destruction of structural materials
	Study of morphology, fractures and quantitative analysis of the
	geometric characteristics of the structure of heterogeneous
	structures of welded joints, which determine the level of brittle
	strength of the weld metal of the reactor pressure vessel
List of possible research topics	1) Fractographic studies using computerized quantitative
	2) Influence of structures parameters on the properties of metal
	products based on their quantitative analysis
	3) Analysis of big data arrays of production control of metal
	products
	Metal science and heat treatment of steels and alloys
	Supervisor's research interests:
	Quality management of structural materials; big data (data minig)
65	fractures
	Research highlights
	1) The program provides for the acquisition of practical skills in
	working on modern experimental equipment.
	2) The opportunity to take part in joint projects with the
	3) Develop of procedures for quantitative processing of structures
La Anna	and fractures based on their images
	4) Acquire skills in processing large data arrays, taking into
	account the physics and chemistry of the phenomenon
All and a second se	Supervisor's specific requirements:
	 The ability to use common programs Excel, Photoshop Knowledge of the basic course of physics, chemistry materials
	science, statistical.
Research supervisor:	• To know and be able to apply the basic methods quality control of materials
Elina A. Sokolovskaya,	Supervisor's main publications: 13 publications
Candidate of Science/PhD	On necessity of taking into account statistical nature of the
	objects using Big Data in metallurgy // CIS Iron and Steel Review_2022V. 23N. 1P.105-112
	Scales of the Heterogeneity of Structural Materials and
	Methods of Its Estimation // Russian Metallurgy (Metally), 2022, 2022(6), cm 603, 610
	 Digitization Possibilities for Steel Quality Control Using the
	Structure of Fracture //Russian Metallurgy (Metally), 2021,
	 On Taking into Account the Statistical Nature of Objects in
	Structural Analysis in Metals Science // Russian Metallurgy
	(Metally), 2020, 2020(12), ctp. 1435–1438 Measurement of Banded Microstructure Characteristics in
	Sheet Steels // Metallurgist, 2019, 62(11-12), crp. 1225–1231

Rest	ilts of intellectual activity
	I. Коллектив. Патент на изобретение RU 2637734, заяв.
	29.12.2016, опубл. 06.12.2017. Бюл. № 34
2	2. Коллектив. Патент на изобретение RU 2668691, заяв.
	27.12.2017, опубл. 02.11.2018