South Ural State University | National Research University

CHEMISTRY FOR ENVIRONMENTAL ENGINEERING

MASTER'S DEGREE PROGRAM

PROGRAM DESCRIPTION

The master's degree program "Chemistry for Environmental Engineering" is a program focused on understanding and developing solutions for environmental problems. Graduates will be able to:

- Recognize cutting-edge methods of environmental protection, energy- and resources-saving technologies and apply these concepts to analyze and solve modern environmental problems.
- Apply theoretical principles and knowledge of advanced chemistry to develop and investigate of ultradispersed and nanostructured materials for environmental protection.
- Establish a core understanding in the principles of environmental conditions assessment, analysis of dangerous toxicants, physicochemical environmental study; apply theoretical principles and knowledge to plan activities with the aim to decrease environmental pollution.
- Obtain the latest knowledge of new progress in synthetic chemistry, development of green chemistry as a new research area.

PROGRAM STRENGTH

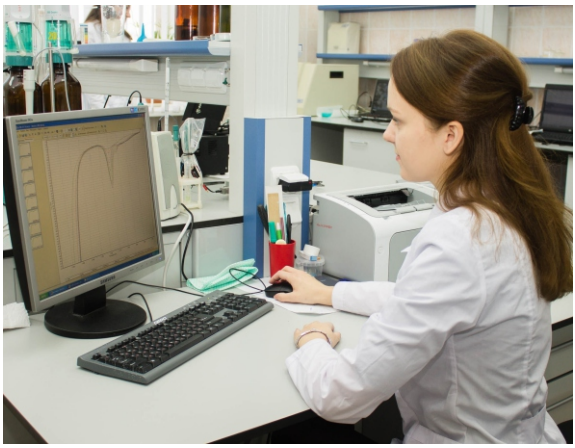
The master's degree program "Chemistry for Environmental Engineering" is a unique program which includes courses embracing the most up-to-date methods of environmental protection. The lectures will be delivered by leading world scientists with Hi > 20. The program concludes with an individual project or project work in a research group. Project work of the students would be provided using the facilities of Laboratories of "Nanotechnology Research and Educational Center".

Students of the program would be able to participate in research activities in such fields as:

- synthesis and application of heterogeneous (photo)catalysts for environment protection processes;
- study of environmental pollutants with the view of their recycling and deactivation;
- modern photovoltaic materials for energy-saving technology;
- new microporous materials for electro-chemical decomposition of pollutants in water.

INTERNATIONAL SCIENTIFIC PARTNERSHIPS AND COLLABORATION

The Faculty of Chemistry conducts collaborative research projects with foreign universities such as University of Edinburgh (UK, Scotland), University of Oviedo (Spain), University of Belgrade (Serbia). Students will be able to publish the findings of scientific project work in peer-reviewed international scientific journals and participate in conferences.



GRADUATE EMPLOYMENT

Graduates have many employment opportunities in the modern high-tech enterprises using the modern chemistry advances for environmental protection.

Graduates are welcome in specialized environmental companies, industrial sector, laboratories for studies of environmental quality, companies that design equipment of pollution reduction, etc.

Admission Requirements. Start date for the program is in September, 2019. The program is two years in duration. Students must hold, or reasonably expect to hold by September, 2019 a Bachelor's Degree in Chemistry / Chemical Engineering / Environmental Engineering / Environmental Science with a good average grade. The major admission criterion is a basic knowledge of chemistry. Deadlines to submit a complete application package, including all supporting documents: August 1, 2019.

The tuition rate ranges from $3000 per year to $3500 per year.

Language Proficiency. English Requirement (if applicant's first language is not English): Minimum TOEFL score internet-based 80 or International English Language Testing System IELTS overall grade 6.0 (with a minimum sub-score of 6.0 for speaking). The test should have been taken within two years of the date a completed application is filed.

Students can pass the language proficiency test online. The test is available online on South Ural State University's website.

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FILE YOUR APPLICATION AT:
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USEFUL LINKS:
https://www.mastersportal.com/studies/272312/chemistry-for-environmental-engineering.html?uid=ce8ef86790c3a839aae8078b99cb688a