

Chemistry

South Ural State University

Degree or qualification is awarded: **Master's degree**

Language of study: **Russian**

Mode of study: **full-time, distance learning**

Duration: **2 years**

Availability of free education: **no**

Price: **155 900 rubles**

Programme webpage at the university website:

<https://www.susu.ru/en/education/masters-degree-programs/040401-chemistry-chemical-informatics>

Programme curator: **Ekaterina Bartashevich**

Tel.: **+7(351)267-91-15**

E-mail: pmfdek@susu.ru

The educational programme is being fulfilled in the form of "project-based learning". Theoretical modelling of the structure of organic compounds at different-scale levels, and predicting the properties of organic polymers and biopolymers are in demand in a wide range of science-intensive tasks. This programme will introduce students to the basics of the methods of calculating molecular dynamics, docking, molecular modelling, utilitarian programming; teach students how to search for and analyse scientific information on their own; help them gain the skills in molecular-dynamic modelling of macromolecular and polymer objects. The project will result in creating a model of a polymer or biopolymer behaviour in solution, and comparing the in silico obtained characteristics to the available experimental data. The training being offered within a scientific research aimed at solving a specific problem will prepare students for independent research work and give them an early start to science, including thanks to the publications on the results of completing the project.

Specializations within this programme

Chemistry (Chemical Informatics)

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