

Chemical Technology

National Research Lobachevsky State University of Nizhni Novgorod (Lobachevsky University)

Degree or qualification is awarded: **Bachelor's degree in Chemical Technology**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **175 000 RUB per year**

Programme webpage at the university website: <http://www.unn.ru/chem/>

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Students studying at the Faculty of Chemistry become highly qualified specialists. Graduates from the Faculty of Chemistry get employed at academic and industrial scientific research institutions, leading enterprises of petrochemical and chemical industry in Russia and the Nizhny Novgorod region, analytical control laboratories (ecological control, customs, forensic laboratories, sanitary and epidemiological service), enterprises of radio-electronic, pharmaceutical, food, wood processing and other industries, as well as teachers at higher educational establishments, schools and other sectors of national economy. Students of the Faculty of Chemistry actively participate in scientific work, which is an integral element of the educational process. A lot of students are winners of Russian scientific student's conferences and competitions. After graduation the most talented students improve their scientific qualification by studying under postgraduate training programmes under the guidance of leading professors of the Faculty.

Specializations within this programme

Technology of Inorganic Substances

The training of Bachelor's degree students is aimed at studying Chemistry of High-Purity Substances and understanding the classification of substances according to their purity degree as well as properties of high-purity substances, influence of impurities on high-purity substance properties.

During the course students acquire knowledge in the sphere of high-purity substances production, processes limiting the substance purity degree at the stage of high purification, functional materials on the basis of high-purity substances. Students know how to apply physics-chemical notions to choose methods of acquiring materials of different nature for using them in optoelectronics, fiber-optical units and devices. Students know physical principles of ion formation processes in various types of ion sources of solid-state mass spectrometers, methods for ions separation according to their mass and detection, main types of ion sources, mass analyzers and ion detectors.