

Division: *Institute of Natural Sciences and Mathematics*

Academic programme: *18.03.01 Chemical Engineering, Oil and Coal Processing*

Mode of study: *full-time*

Programme length: *4 years*

Programme level: *Bachelor's degree*

Language of instruction: *Russian*

Programme description: *The training of engineers in Chemical Engineering was organized at South Ural State University in 2002 in order to meet the needs for qualified personnel of the enterprises of the metallurgical and energy complex of the Chelyabinsk region and the Ural region, engaged in the processing of natural energy carriers and the production of metallurgical fuel, electrodes, structural and special carbon materials, as well as the production of refractory materials. In addition, there has recently been a growing need for chemical technologists for gas and oil enterprises, as well as for the production of fertilizers and other mineral products.*

Students carry out scientific research using the capabilities of Nanotechnology Research and Education Centre. This allows for maintaining the world level of research and deliver oral presentations at foreign conferences. Our graduates have excellent career opportunities both in enterprises and in science.

Main programme-specific classes:

- *Analytical Chemistry and Physicochemical Methods of Analysis*
- *Colloidal Chemistry*
- *Crystal Chemistry*
- *Materials Science. Structural Materials Technology*
- *Modelling of Chemical-technological Processes*
- *General Chemical Engineering*
- *Refractory Industry in Russia*
- *Oil and Gas Processing*
- *Pneumohydroautomatics in Chemical Production*
- *Processes and Equipment of Chemical Engineering*
- *Chemical Process Control Systems*
- *Technology of Refractory Materials*
- *Technology of Carbon Materials*

Programme manager: *Bariia Sh. Dyskina, Doctor of Sciences (Engineering), Senior Research Fellow, Professor at the Department of Ecology and Chemical Engineering*