

Mechanics of Fluid, Gas and of Oil and Gas Transmission Systems

National Research Tomsk State University

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

Language of study: **Russian**

Mode of study: **full-time**

Duration: **2 years**

Availability of free education: **yes**

Price: **185 200 RUB per year**

Programme webpage at the university website: <http://www.math.tsu.ru/node/1535>

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Research in fluid mechanics, combustion, and engineering physics encompasses a broad spectrum of problems in aerodynamics, ocean-related flows, turbulence, reacting flows, multi-phase and particulate flow hydrodynamics. The research is relevant to a variety of engineering disciplines ranging from the design of airplanes and automobiles, to aerospace guidance and control, to the prediction of the global climate, to bio-fluid dynamics, to flow over magnetic tapes and disks, to industrial fluid mechanics.

Current research areas consist of a combination of experimental, theoretical, and computational programs addressing turbulent flows, the mechanics of two-phase flow, rheology of suspensions, laminar and turbulent combustion, the mechanics of drops and biological cells, flow in porous media, geophysical flows, propellant combustion, microgravity flows, chemical kinetics of combustion systems, vortex dynamics, flow instabilities, environmental fluid mechanics.

Admission to the program is carried out on a competitive basis following the results of admission tests: written test and an interview.

Specializations within this programme