

Astrophysics and Astrochemistry

Ural Federal University named after the first President of Russia B.N. Yeltsin

Language of study: **Russian**

Mode of study:

Duration: **2 years**

Availability of free education: **no**

Price:

Programme webpage at the university website: <https://programs.edu.urfu.ru/en/9906/>

Programme curator: **Eduard Kuznetsov**

Tel.:

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Entry requirements:

4-year Bachelor's degree (or equivalent) in astronomy or physics

Program goal:

The primary goal of the program is to prepare students for the research work in astrophysics and astrochemistry. For that, deep understanding of physics, astronomy and chemistry, as well as research skills, strategic planning, critical evaluation of the scientific results and the ability to think independently are critical. All those professional and soft skills will be trained during the two-year course of the research-oriented master studies.

Program's highlights:

1. The master's degree program in astrophysics and astrochemistry allows the participants to focus on either experimental or theoretical topics. The distinctive feature of the program is research-oriented approach which means that students are expected to pursue their own research during master studies under the guidance of UrFU's academics.
2. Ural Federal University is one of the handful universities across the globe that offers degree in astrochemistry as well as in astrophysics.
3. The program is divided into two parts. During the first two semesters, students will take core courses in general astrophysics, astrochemistry and advanced courses in physics. In addition, students can also choose a specialized. Knowledge and abilities developed in the first three semesters, will be strengthened and enhanced during a half-year-long research phase which is scheduled for the fourth semesters. During this stage, the master thesis based on research work conducted by a student shall be completed with accompanying colloquia, tutorials and seminars.

Career opportunities:

Alumni of the Master of Science in Astrophysics and Astrochemistry are successful both in academia and industry. Those interested in academic careers typically enroll in highly competitive PhD programs both in leading Russian academic institutions and abroad. Many of those received PhD degrees successfully continue their careers in academia. Alumni interested in industrial careers find jobs in a wide range of industries, including IT, geodesy, logistics and many other fields that are in need of highly skilled employees.

Possibilities for continuing research

Graduates of the subject 03.04.02 "Physics" (Master's program "Astrophysics and Astrochemistry") are prepared to continue education as postgraduate students of the next subjects: 01.03.02 "Astrophysics and Stellar Astronomy", 01.03.01 "Astrometry and Celestial Mechanics".

Specializations within this programme