

## Department of Ecology

### Environmentally Safe Water

**Duration: 1 month**

**Supervisor: Professor Olga Atamanova**

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**Language of training: English**

**Audience: post-graduate students**

The Department of Ecology of Yuri Gagarin State Technical University of Saratov offers an «Environmental Safe Water» internship program for post-graduate students, as well as interested representatives of business and production. This is a great opportunity to gain invaluable work experience and the necessary practical knowledge for a successful business right now. Participants of the program are involved in an innovative work, combining research and implementation of results into production from the first day of the internship. They implement their own projects, participate in training and scientific and practical seminars.

Students will learn in practice how to develop filters for drinking and household water treatment.

Topics of the internship:

- methodology for creating innovative filtering downloads of high-cost, high-performance materials from affordable raw materials;
- approaches to modifying the properties of adsorbents, aimed at expanding the range of removed ecotoxicants;
- approaches to the study of the properties of adsorbents based on natural raw materials;
- practical principles for water analysis on ecotoxicants;
- a sequence of steps to create filters from creating an innovative project to patenting and implementing the result.

SSTU experience in the field of scientific and practical activities in the field of water purification filters is confirmed by a large patent base, research grants, fruitful cooperation with manufacturing companies.

The Department of Ecology has a modern material base, scientific and technical backlog, in demand all over the world. Therefore, it remains an

exceptionally attractive place to train highly qualified personnel both internationally, where we remain ahead of the competition in the fight for talent.