PER ASPERA AD ASTRA!

Information letter

Call for Participants to International Summer School

“Siberian Satellite Design School 2025”

(SSDS-25s)

18th– 31st August 2025

Reshetnev Siberian State University of Science and Technology (Reshetnev University) located in the Krasnoyarsk city is one of leading universities in Russia that trains highly qualified personnel for aerospace industry.

Beside training specialists Reshetnev University provides research and development in wide range of aerospace engineering areas and satellite design, including onboard control systems, electrical power systems, mechanical and antenna systems, etc.

For many years Reshentev University accumulated great experience in small satellites development and operation:

Small satellites **Yubileyny-1 (RS-30)** and **Yubileyny-2 (RS 40)** were launched in 2008 and 2012.

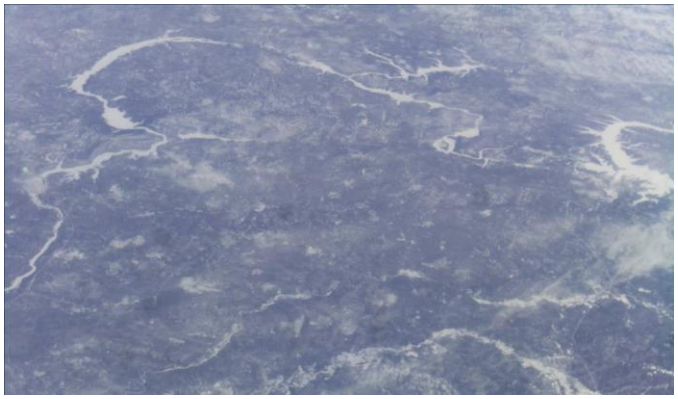
ReshUCube-1 has been launched on August 9, 2022.

ReshUCube-2 is scheduled to be launched in June 2023.

ReshUCube-3 is under development.

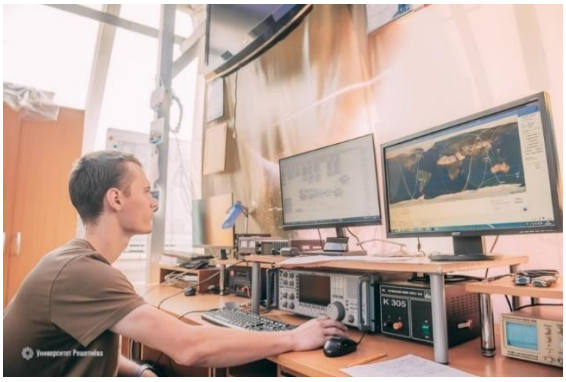
Reshetnev University Mission Control Center allows controlling satellites and receiving telemetry from them.

ReshUCube-1



ReshUCube-1’s Photo of Earth

“Siberian Satellite Design School 2025” – ONLINE / OFF-LINE School (SSDS-25s)



Reshetnev University Mission Control Center

University team welcome undergraduate and postgraduate students, young researchers and specialists to join International Summer School **“Siberian Satellite Design School – 2025”** to be held on 18th – 31st August 2025 in online / off-line mode.

The theme of SSDS-25s devotes to study the CubeSat satellites development and operation fundamentals.

SSDS-25s program content and organization

- CubeSat development concepts
- CubeSat mechanical design
- CubeSat power system
- CubeSat attitude control system
- CubeSat communication system
- CubeSat payload
- Management issues of CubeSat
- CubeSat operation

The School is the best place to get involved in communication with CubeSat developers and to get firsthand experience in small satellite making. The School trainers intend to back up the theoretical material with their practical experience in the development and operation of launched university’s satellites.

Participants of the School will have a chance to join a communication session with on orbit satellite ReshUCube-1.

During training sessions participants will be split into several working groups and it is expected that as a result of the School program each team will be able to realize individual project on selected CubeSat space mission and present it to the panel of experts and other participants.

Working language: **English**

School outcomes

The School implies **intensive project training** of nanosatellites design. All trainees will enrich their knowledge and get useful experience participating in lectures and practical classes, cases discussions and specific project development.

Participants successfully finishing the School program will receive Reshetnev University Certificate "Introduction to CubeSat satellite design" of **108 hours (3 credits)**.

Teaching team

The SSDS-25s teaching team consists of top experts and specialists from Reshetnev University, who has experience in small satellites and on-board spacecraft systems development, as well as physical research in space.

Reviews of participants of previous Schools

Yilkal Chanie Eshete, Space Science and Geospatial Institute, Ethiopia

(participant of summer school 2022)

All the trainings delivered were amazing. Especially the courses of CubeSat subsystem design and orbit mechanics were so interesting. The practical sessions were so inductive.

The teachers are so kind to let the trainees know the most out of it. It teaches the basics of small satellite mission definition, designing and launching a functional CubeSat system for in orbit launching. The team projects are also great which lets the team develop a satellite by itself.

The training by itself encompasses the basics of small satellite designing and all items are addressed and my recommendations lie mainly to focus on providing the skills in subsystems design. A functional satellite is developed by integration of different subsystems and providing a detailed know-how on each subsystem design enables the trainees to have the required skill sets.

Finally, I want to say thank you for making me part of the Summer-2022.

Orujev Rafik, Master's student at West Caspian University, Azerbaijan

(participant of summer school 2021)

I want to say a big thank you for 9 fun days. It was very interesting and informative, I am very grateful for the responsiveness and cheerful approach of all teachers. Special thanks for the fact that this school after quarantine raised me to my feet and helped me to activate, I again had a great interest in space, study, and 3D modeling. :)

Kumail Abdulaziz Radhi Hasan, student at University of Bahrain

(participant of summer school 2021)

It was really interesting school. I enter with zero knowledge about CubeSats. Now, I have a good base of information about, I can go through this discipline. I've the important source to get more knowledge from them.

Tesfay Yemane Tesfu, PhD at Mekelle University, Ethiopia

(participant of summer school 2021)

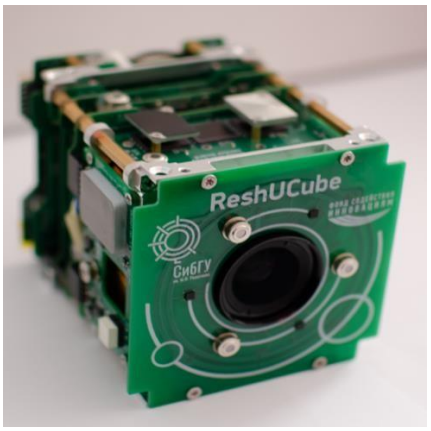
Incredible management of event, suitable online up of discord, very relevant title of trainings, comfortable approach flow of training. Enthusiastic and cooperative approach of our monitor, and team project has made fruitful of the training.

Application & Admission

You can submit application through the link below. Please, be sure you uploaded all the necessary documents before submitting your application. Incomplete applications will not be considered!

1. A complete application form
2. A brief description of the research interests (maximum 2500 characters without spaces)
3. A scanned copy of an identifying document (travelling passport or other ID should contain the translation into English)

Contacts



Organizational issues

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Training program

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