



# EUROPEAN SPACE CAMP

**European Space Camp 2019 will take place from 8<sup>th</sup> to 15<sup>th</sup> of August and the launch is scheduled for Tuesday 13<sup>th</sup> of August.**

## **General**

European Space Camp is annual summer camp for students between the ages 17 and 20 that gathers 24 students with an interest in space and science for a week full of rocket science, physics and fun. European Space Camp was first arranged in 1996 under the name Space Camp Andøya, and has since then developed from a Nordic camp to an international event with participants from all over the world. The main goal of the camp is to promote science, and to inspire participants to choose a career within science. Team Space Camp, in cooperation with NAROM (The Norwegian Centre for Space-related Education) and The Norwegian Space Centre, organise the camp, held at the Andøya Space Center in the northern part of Norway.

## **Participants and the application process**

Applicants for European Space Camp should have a keen interest in Space and Rocket Physics, and a good grasp of Mathematics and Physics. It is also important that participants are fluent in English as all lectures and workshops are only covered in English.

The seats at European Space Camp are funded both by sponsors and through cooperation with several scholarship providers. The lucky participants are carefully selected from the many applicants, and the result is a high quality summer camp that will provide participants with memories for life, and experiences and opportunities that are not possible at school.

European Space Camp is an international camp open for students from all over the world. In addition to participants from all over Norway and Europe, the camp has had participants from the USA, Canada, India, China, Bangladesh, New Zealand, Australia, the Philippines and more.

## **Content of the camp**

The scientific part of the camp is divided between lectures and group work. Lectures are held by some of the best scientists and lecturers across Europe, and cover both topics directly related to rocket science and rocket technology, and other topics like the Northern Lights, life on Mars, and the cutting-edge research being undertaken at CERN. Some of the well-known lecturers the participants will have the privilege of listening to is Egil Lillestøl from CERN and space physicist Alv Egeland. The group work enables the participants to take part in both the practical and the theoretical aspects of a rocket campaign, and they are divided into four groups: *Sensor Experiment*, *Payload*, *Telemetry and GPS*.

The aim of the group work is to complete a rocket campaign to launch a student rocket. The student rocket is a 2.7m long Mongoose with a theoretical maximum height of 9km. During group work the participants undertake several tasks on the rocket, including soldering sensor cards that are part of the payload, performing aerodynamic analysis and doing stability calculations. The participants also collect data from the rocket during the launch and analyse the data afterwards.

Participants also get to go on a virtual mission to space in Spaceship Aurora. The Spaceship Aurora is a new learning and activity center linked to the business of Andøya Space Center. The center consists of the following: Spaceport Andøya, Spaceship Aurora, Northern Lights Film and exhibitions. Spaceport Andøya is a simulator for rocket launches, where the goal of the experience is to take the participants on a mission including a launch of a virtual rocket and measuring the rocket during flight, by using collected data. The spaceship itself is a virtual machine where participants are taken on an exciting mission into space. Various stations on board will let the participants research the northern lights during the mission in space.

In addition to days filled with physics and rocket science, there are also multiple social activities planned for the participants, such as swimming under the midnight sun, a GPS treasure hunt, volleyball, a barbecue, a hiking trip and many more. The social activities are an important part of the camp because they give the participants the opportunity to enjoy the beautiful surroundings on Andøya and make friends for life.

### **Organising**

NAROM (The Norwegian Centre for Space-related Education), located at Andøya Space Center, is one of the camp's most important partners, and is a national centre/school laboratory for space-related education for students of all ages. NAROM makes use of the established infrastructure at Andøya Space Center. NAROM conducts several educational activities annually and European Space Camp is one of many activities NAROM helps arrange. Another important partner in the organising of the camp is The Norwegian Space Centre.

NAROM is responsible for the scientific part of the camp, and cooperates with the voluntary organisation European Space Camp on the overall planning of the camp. The organisation consists of a group of students, Team Space Camp, who are exclusively past participants and take on this responsibility on a voluntary basis. The main tasks of the team involves financing, promoting the camp and organising social activities to make sure European Space Camp is an unforgettable experience for all participants.

If you have any further questions or would like to request high-quality images, please do not hesitate to contact us.

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