

# Edu-Arctic Arctic Competition 2019

## Competition rules:

### *General information*

EDU-ARCTIC invites students and their teachers from schools across Europe and outside to join the Arctic Competition and develop a research project or an innovation project designed for an arctic environment.

The Arctic Competition is for teams of one or two students, aged 13 to 20, and one teacher as a mentor. Participating teams can come from schools across Europe and outside. Each team develops a project in one of these categories:

Category 1 – Innovation project;

Category 2 – Research project.

Young students who are fascinated by disciplines such as science, technology, engineering and mathematics though not yet scientists will have the opportunity to take part in a scientific expedition in the Arctic as a main prize in the Competition. The students will be accompanied by their teacher during the expedition.

### **Edition 2019**

The Competition starts 23<sup>rd</sup> October 2018. Applications will be submitted online on the portal. They may be uploaded before 23<sup>rd</sup> of January 2019 at 11 am UTC, whereas the full proposals must be submitted before 14<sup>th</sup> of March 2019 at 11 am UTC.

In the 2019 edition 4 teams can win a polar expedition to one of two arctic stations: 2 teams will go to Northern Norway (NIBIO Svanhovd) and another 2 teams will go to the Faroe Islands. At these locations the participants will join a 6 day long arctic expedition and take part in field work conducted in the area. If possible, we will try to fit into the expedition program exercises that are relevant for the students' own projects.

### ***Who can join the competition?***

1. Teams from schools across Europe and outside.
2. A team consists of one or two students and one mentor, who is a teacher at the school.
3. The teacher does not necessarily have to be the students' teacher at the moment. However, he/she must be employed at the same school.
4. The teacher and the students join the arctic expedition together and the teacher is responsible for the students' wellbeing on the expedition.
5. The students must be between 13 and 20 years old at the time of the arctic expedition.
6. The students and teachers have to be able to communicate well in English.
7. Before submission the teacher must get the written, signed consent of the students, whose work is submitted for the competition within the EDU-ARCTIC project. In case a student is a minor the written, signed consent of student's legal guardians must be obtained by the teacher.

## **Project**

1. The student/students make a proposal for a project with the support from the mentor.
2. The subject of the project can be one of these two categories:
  - a. Category 1 – Innovation project – a proposal for an innovative solution to a specific problem in the Arctic. You may design or develop a prototype of an invention that could be useful in the Arctic (see submission guide).
  - b. Category 2 – Research project - a proposal describing a plan for a research project to be carried out in the Arctic. You should find a research question and design ways to test or answer the question (see submission guide). If it is practical and possible the students' project may be conducted on the arctic station during the summer expedition. Research plan should take into account laboratory equipment available at arctic stations and details of research conducted there. You may find more about the stations during online lessons provided by the EDU-ARCTIC program.

## **Prize: Arctic Expedition to Faroe Islands and Northern Norway**

The winning prize in 2019 is an expedition to either the Faroe Islands or Northern Norway with all expenses covered. In 2019 the EDU-ARCTIC project, funded for European activities only, is able to invite students and teachers outside Europe to participate in the Arctic Competition, but they will have to cover their own travel-cost to a European city if they win.

## **Date of arctic expedition**

Northern Norway, Svanhøvd: 6 days in late June (week 25 or 26) 2019

Faroe Islands: 6 days in late June or early July, 2019

## **Evaluation criteria**

The projects will be evaluated on following criteria:

1. Originality of the concept
2. Clear description of idea
  - a. describe a problem and document the proposal of a solution (category 1)
  - b. describe a question, formulate a hypothesis and ways to test the hypothesis (category 2)
3. Feasibility of the project

*Please Note: The projects will be notified if they make it to the next stage or not. No other feedback will be given to individual projects.*

### ***The process of evaluating the projects in 2019 edition***

- Stage 1: Project summary must be submitted before deadline 23. January 2019 at 11 o'clock UTC. Make a GOOD summary of your proposal. The jury will select up to 50 project summaries to continue to stage 2
- Stage 2: Full project must be submitted before 14. March 2019 at 11 o'clock UTC. Based on the full proposals the jury will select at least 12 best projects<sup>1</sup> to continue to stage 3.
- Stage 3: At least 12 best projects will be invited to online interviews and have a chance to present their projects in detail to the jury on 9, 10 and 11 of April 2019.
- Stage 4: Announcement of 4 winning teams who will have the opportunity to visit the arctic stations and participate in scientific work.

### ***Important about copyrights:***

- 1) Summary of all projects submitted to EDU-ARCTIC may be published on the website. This means that the project summary will be publicly available and everyone will have access to read it. Be careful not to use sensitive information and images that you do not want to be public.
- 2) We will be careful not to describe any part of the report in a negative way.
- 3) The mentor of the project is responsible to ensure that all rights to content in the project are respected and necessary permissions are in place, in order so the project summary can be published on the website.

### **Submission guide for the Arctic competition of EDU-ARCTIC – edition 2019**

1. All the project materials must be submitted electronically by the teacher.
2. All project materials must be prepared in English. English is the official language of the Competition.
3. Information to include:
  - a. Students' names
  - b. Students' ages
  - c. Country
  - d. Project title
  - e. Category: 1. Innovation project or 2. Research project
  - f. Type of project: essay, poster or video
4. **Category of project.** You can choose one of two categories of projects:
  - a. Innovation project.

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<sup>1</sup> More than 12 projects may be selected for the 3rd stage in case that projects have exactly the same score as project in the position number 12 in order to avoid random selection.



- Describe a problem which is found in the Arctic
- Propose a solution to the problem. You can design or develop a prototype of an invention that could be useful in the Arctic. Keep in mind that you have to submit the project electronically.
- Examples: Problems associated with living in an Arctic station, problems with field research, interactions with animals and so on.

b. Research project

- Describe a question relevant for the Arctic environment. Something that you are curious about.
- Formulate a hypothesis.
- Propose a way to test your hypothesis.
- Examples: the subjects could for instance be in the field of hydrology, biology, glaciology, soil science, meteorology and climate change.

5. **Summary.**

Write a clear summary of your project using maximum 1500 characters. The jury will find 50 best projects based on the summaries. These projects will be invited to submit a full project proposal, see point 6.

6. **Type of project.** You have to choose to submit the project as an essay, poster or a video.

- Essay** must be max 7500 characters.  
You can also include illustrations and pictures.
- Video** has to be less than 5 minutes long. The video can be an animation.
- Poster**, design an original poster that presents your project.