

## **The NANOSTAR Student Challenges kick off**

- **This NANOSTAR challenge consists in the predesign of a nanosatellite space mission to the Moon.**
- **Registration open: February 11, 2019 – April 11, 2019**

*February 2019*

This phase 1 challenge consists in the predesign of a nanosatellite space mission to the Moon. The satellite, equipped with a scientific payload, will perform observations and measurements of the Moon's surface, while executing a close-distance fly-by.

This is a competitive challenge, in which multidisciplinary teams of students from the NANOSTAR universities will have to develop and present their design solutions to satisfy a set of mission requirements. Students will be assisted by expert faculty and learn how to create a space mission cooperatively in the framework of concurrent engineering.

### **How to participate**

Students participate to the NANOSTAR challenges in teams. They can register with friends or ask to join a team of other students: the idea is to learn together as they develop their system solution. We encourage the participation of multidisciplinary, mixed teams of about 5 women and men. Students can participate with their university colleagues or form an international group that spans several NANOSTAR institutions.

Each team will be assigned an advisor who will be their point of contact with the NANOSTAR network.

At the end of the competition, students will be asked to hand in a design file with the definition of their solution, a preliminary design report, and to showcase their results in a presentation. An Evaluation Committee, composed of members from all NANOSTAR institutions, will evaluate the received designs and select the winning proposal.

The awarded design will be extended and serve as the baseline for the future NANOSTAR challenges, which will focus on the detailed development and testing of parts of a nanosatellite and related facilities.

The application form, the set of mission requirements and constraints, and additional links and information can be found at the NANOSTAR website: <http://nanostarproject.eu>.

### **NANOSTAR project**

NANOSTAR is a European project to support the training and development of student nanosatellites in the south west of Europe.

NANOSTAR project is funded by the Interreg Sudoe Programme through the European Regional Development Fund (ERDF). The project has a planned duration of 30 months and a total budget of 2 million euros.

The consortium is composed of **2 aerospace clusters, 7 universities** plus **3 ESA-BIC centres as associates**, in **France, Spain and Portugal**.

- Aerospace Valley (Project coordinator) [www.aerospace-valley.com](http://www.aerospace-valley.com)
- Madrid Aerospace Cluster [www.madridaerospace.es](http://www.madridaerospace.es)
- Institut Polytechnique de Bordeaux [www.bordeaux-inp.fr](http://www.bordeaux-inp.fr)
- Institut Supérieur de l'Aéronautique et de l'Espace [www.isae-supaero.fr](http://www.isae-supaero.fr)
- Université de Montpellier [www.umontpellier.fr](http://www.umontpellier.fr)
- Universidad Politécnica de Madrid [www.upm.es](http://www.upm.es)
- Universidad Carlos III de Madrid UC3M [www.uc3m.es](http://www.uc3m.es)
- Universidade da Beira Interior UBI [www.ubi.pt](http://www.ubi.pt)
- Instituto Superior Técnico <http://tecnico.ulisboa.pt>

### Associates:

- ESA BIC Sud France
- Instituto Pedro Nunes - Associação para a Inovação e Desenvolvimento em Ciência e Tecnologia [www.ipn.pt](http://www.ipn.pt)
- Fundación para el Conocimiento madrimasd en su función de ESA BIC España [www.madrimasd.org](http://www.madrimasd.org)

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