



# EUROPEAN PROFESSIONAL MASTER FOR GRADUATE STUDENTS IN “SPACE TRANSPORTATION SYSTEMS” LAUNCHERS AND RE-ENTRY VEHICLES

**APPLICATION DEADLINE: 15 DECEMBER, 2018**

## DESCRIPTION

The European Professional Master in “Space Transportation Systems” (STS) has been conceived and structured as a service to help the best graduates in finding a job within companies or agencies operating in the field of space launchers and re-entry vehicles. The educational path aims at developing highly qualified system engineer experts in Design and Analysis, as well as management and R&D activity. The program includes training periods at Sapienza and in EU Research Centers and 6-months stages offered by the Partner Industries. After the course, 90% of the participants have found an employment in the aerospace or aerospace-related field. Indeed, Partner Industries are inclined to offer a regular employment contract after the internship period. One of the MasterCourse STS most effective results has been the support provided to the project of the Vega launcher, with several former students who later became principal actors in the project.

## TRAINING PROGRAMME

The II° Level University Master’s degree in “Space Transportation Systems” (STS) has a duration of 12 months and it awards 60 ECTS credits. It is carried out in English language and consists in a compulsory attendance comprised of 1.500 hours activity, scheduled as follows:

- Theoretical education. Frontal lectures, experimental activities, work projects, exercises, middle-term tests (500 hours – first 5 months).
- Intensive programme. Training in some of the best research Centers in Italy and Europe: CIRA; CNES, ESA/ESTEC/ESRIN; VKI–Bruxelles. Thanks to contributions by ESA and Arianespace, since 2006 the best students have been invited to visit the Europe’s Spaceport in Kourou (French Guyana) (200 hours – 1 month).
- Paid internship at aerospace companies, Italian research centers and aerospace industries, with the possibility of practically implementing the skills learned during the theoretical course. During this phase a Master’s thesis will be carried out by students who will be evaluated through a final exam (800 hours – 6 months).

## ADMINISTRATOR OFFICE

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## ADMISSION AND COSTS

A maximum of 20 positions are available for this Academic Year. The Admission procedure is carried out on a competitive selection basis (Curriculum Vitae and Interview) and performed at the students' home universities. Participation is limited to graduate students in possession of a graduate degree in Aerospace Engineering or other Engineering fields. All candidates should demonstrate a sound knowledge of fundamental notions in Thermo-fluid-dynamics and Gas-dynamics, Aerospace Propulsion, Aerospace Structures, Aerospace Flight Mechanics. The official participation fee to the Master Course is 4.500,00€. However, the Sponsor Industries cover 100% of costs to their selected trainees (roughly 12 positions available).

