The international space and Earth science communities have requested that the Business of Science (BoS) Module be added to the SpaceTech Masters in Space Systems and Business Engineering so as to provide project scientists, aspiring Principal Investigators (PIs), systems engineers and project managers with the opportunity to work together as a team to create credible space and Earth science proposals. The BoS Module is designed with the skills necessary to identify science goals and develop hypotheses and test; necessary measurement requirements; appropriate instrument and sensor requirements; projected performance; as well as top level mission requirements, all aimed at developing a credible science baseline for potential funding.

Working together across cultures and countries

Our participants are hand-picked, mid-career men and women, supported by governments or industries around the globe, to attend SpaceTech with the goal of developing necessary capabilities to become technical leaders in their organizations. During the 18 month program we get to know each other very well, and, in many cases, form lasting friendships. The best part of the SpaceTech program for me is seeing our participants meet and exceed their goals to become leaders of their organizations, working together across cultures and countries.

The SpaceTech programme is designed with both online and presence session examinations. This is intended to allow participants to take the courses in parallel with their normal jobs. It also features, as an important area of particular emphasis, a Central Case Project on which all participants work, both individually and collectively. All lectures, documentation, and examinations are in English.
The global space sector continues to grow at a fast pace, introducing new technical challenges, exciting business opportunities and the need for technical leaders that can manage the associated technical engineering, business and risk aspects.

The SpaceTech Masters in Space Systems and Business Engineering began in 1997 and has graduated several hundred technical leaders that have gone on to lead large international space projects, serve as CEOs and center directors in their organizations. TU Graz’ success in conducting this program is due in great part to the ability to identify and select, and train high-potential, mid-career engineers from within government and industry across the business or project and meet schedule at or below cost.

The SpaceTech Program for me is seeing our participants meet and exceed their goals to become leaders of their organizations, working together across cultures and countries.

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The key for success

Systems engineering is key to success for every space mission. Combined with business engineering the SpaceTech professional post-graduate master’s program offers unique opportunities for space professionals who wish to extend their knowledge and skills in all relevant areas of space systems.

A very unique experience

The combination of lectures by distinguished internationally renowned personalities from the space community with the creation of a virtual start-up company made the study programme a very unique experience. The programme was designed so that in the majority of cases the participants were able to apply their theoretical knowledge and experience directly to practical real-life situations. One of the most interesting parts of this programme was that it makes such efficient use of lecture time while providing in-depth theoretical knowledge. Another distinct advantage is that it allowed us to establish this programme was that it makes such efficient use of lecture time while providing in-depth theoretical knowledge. Another distinct advantage is that it allowed us to establish working partnerships with the space community with the creation of a virtual start-up company made the study programme a very unique experience. The programme was designed so that in the majority of cases the participants were able to apply their theoretical knowledge and experience directly to practical real-life situations.

The SpaceTech programme is designed with both online and presence session elements. This is intended to allow participants to take the courses in parallel with their normal jobs. It also features, as an important part of the programme, the creation of a virtual start-up company made the study programme a very unique experience. The programme was designed so that in the majority of cases the participants were able to apply their theoretical knowledge and experience directly to practical real-life situations. Our Central Case Project – a kind of virtual Space start-up – dealt with the subject of commercially profitable mobility on the Moon. Not an easy subject, but all the more rewarding for that! One of the resaons for the success of the programme was that it allowed us to establish working partnerships with the space community with the creation of a virtual start-up company made the study programme a very unique experience. The programme was designed so that in the majority of cases the participants were able to apply their theoretical knowledge and experience directly to practical real-life situations.

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Facts

Degree
MEng SpaceTech - Master of Engineering in Space Systems and Business Engineering

Language of instruction
English

Locations
Graz University of Technology (Austria)
CNES Toulouse (France)
ESA ESOC Darmstadt (Germany)
DLR GSOC Munich (Germany)
ESA ESRIN Frascati (Italy)
ESA ESTEC Noordwijk (The Netherlands)

Attendance Fee
€ 34,000.- (no VAT)
exclusive costs for travelling, accommodation and meals

Schedule
please see: SpaceTech.tugraz.at

Contact and Registration
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SpaceTech Programme Manager
TU Graz Life Long Learning
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Phone: +43 316 873-4935
Fax: +43 316 873-104935
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**Detailed Information**
SpaceTech.tugraz.at
Admission Requirements

- Bachelor’s or Master’s degree in a technical, scientific, economic or legal field, or similar academic qualification
- Minimum 3 years of professional experience working in the aerospace sector or a closely related field
- Proficiency in English
- Application Deadline: 15 January 2022
- Start of the programme: March 2022

Modules

- Project Management
- Business Engineering
- Selected Topics
- Space Mission Analysis and Design
- Telecommunications
- Earth Observation
- Systems Engineering
- Navigation
- Human Space Flight
- Interpersonal Skills & Leadership Development
- Central Case Project (CCP)
The international space and Earth science communities have requested that distinguished internationally renowned personalities from aerospace and business engineering, learned principles, and this Master’s programme is now based in Graz. One of the results was the design of a small lunar rover which – commercially profitable mobility on the Moon. Not an easy subject, but all the more rewarding for that! One of the main advantages is that it makes such efficient use of lecture time while providing in-depth theoretical knowledge. Another distinct advantage is that it allows us to establish many professional contacts from all across the globe. Moreover, the interdisciplinary discussions and learning were both enriching and very exciting.

Our Central Case Project – a kind of virtual Space start-up – dealt with the subject of international mid-career professionals seeking top-level expertise in space systems and business engineering. This combination of lectures by distinguished internationally renowned personalities from the space community with the creation of a virtual start-up company made the study programme unique and innovative. The combination of lectures by internationally renowned personalities from aerospace and business engineering, learned principles, and this Master's programme is now based in Graz. One of the main advantages is that it makes such efficient use of lecture time while providing in-depth theoretical knowledge. Another distinct advantage is that it allows us to establish many professional contacts from all across the globe. Moreover, the interdisciplinary discussions and learning were both enriching and very exciting.

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We care about continuing education.