

SpaceTech

mastering
space
systems



GIOVE B / FREGAT INTEGRATION
© ESA - P. MÜLLER

GRACE
THE TWO IDENTICAL EADS ASTRIUM-BUILT
SATELLITES FOR THE US-GERMAN GRACE
(GRAVITY RECOVERY AND CLIMATE EXPERIMENT)
MISSION WERE LAUNCHED IN 2002
© EADS - ASTRIUM

A unique Master's Degree in Space Systems Engineering

"SpaceTech is an excellent international program that integrates multiple disciplines to prepare participants to be effective strategic leaders."

Ms. Darlene M. Freeman (SpaceTech 2003/2004)

SpaceTech is an international Master's Degree program designed for mid-career space professionals who wish to expand their potential by obtaining expertise in both space systems and business engineering.

This flexible one-year program provides high technical and management competency gains and substantially increased business and interpersonal skills. SpaceTech offers a comprehensive and integrated curriculum, conducted in a multi-cultural and multi-disciplinary environment during five two-week sessions in attractive international locations. Participants can continue to meet their current employment commitments, while at the same time earning an accredited Master's Degree in Space Systems Engineering, awarded by the Delft University of Technology, The Netherlands.

The SpaceTech program provides seven distinct modules:

- Systems Engineering

- Business Engineering
- Space Mission Analysis & Design
- Earth Observation
- Navigation
- Telecommunications
- Interpersonal Skills & Leadership Development

In addition to the modules, SpaceTech provides short seminars on focused topics such as launch vehicles. Visits to the space industry are also included in the program. In operation for more than ten years, SpaceTech is one of the few professional Master's Degree programs in the world that specialize in space education and is internationally recognized for its contributions to the training of future world-class leaders in the space field.

The SpaceTech teaching environment has attracted an international group of well-known, highly respected and top quality instructors and coaches, as well as participants from many parts of the world - a truly international institute.



SPACETECH PARTICIPANTS AT WORK

KIRUNA'S FACILITIES
© ESA - S.CORVAJA

More than a Master's Degree Program

“Due to my participation in SpaceTech, I gained a very broad knowledge in end-to-end systems engineering together with fundamental basics in project management, marketing and financials.”

Dr. Andreas Schwer (SpaceTech 1997/1998)

The SpaceTech curriculum is designed specifically to meet the needs identified by companies and organizations involved in the development, operations, and application of space systems. As such, the SpaceTech program constitutes a unique training environment and curriculum for those who are or will be involved with the execution of integrated product development and the management of multi-national projects.

The SpaceTech curriculum is offered during five sessions, held at international centers of space activity, while graduation takes place during the first session of the next SpaceTech program.

September
TU Delft
 Delft, The Netherlands

November
CNES
 Toulouse, France

February
DLR
 Munich, Germany

April
ESRIN
 Rome, Italy

June
ESTEC
 Noordwijk, The Netherlands



Central Case Project

“SpaceTech provided me tools I use on a regular basis to step back and look at a problem, not with a narrow perspective localized on the issue, but with a wide perspective of how that issue inter-relates across the entire operating space.”

Mr. Brian M. Fox (SpaceTech 2004/2005)

The backbone of the SpaceTech program is the Central Case Project (CCP), aimed at the creation of a credible commercial space-related business. Participants learn to apply the taught concepts to develop technical systems and to adjust its parameters in order to make their newly conceived business feasible and profitable. In this way, participants also experience and learn to work in an international team environment on a project that is as close as possible to real life.

At the end of the program, participants present their project in the form of an unsolicited proposal to potential investors, represented by a selected group of senior engineers, managers and executives from the space community. During the Central Case Project, participants learn the important connections between mission and system design and the potential return to investors.

Mission / Vision and Credentials

SpaceTech Mission

The SpaceTech program of the Delft University of Technology educates international mid-career professionals seeking top-level expertise in Space Systems and Business Engineering.

SpaceTech Vision

SpaceTech develops tomorrow's world-class leaders in Space Systems and Business Engineering.

Accreditation

The SpaceTech Master's Degree is awarded by the Delft University of Technology, one of the most prestigious institutions for advanced technical education in Europe.

The program is newly accredited every two years.

Industry-wide International Recognition

SpaceTech participants have come from leading space companies and institutions throughout the world, including The Boeing Company, Carlo Gavazi Space, Dutch Space, EADS-Astrium, Ericsson, Eumetsat, Kayser-Threde, OHB System, PT Telkom, SES Astra, SES Global, Surrey Satellite Technology, Telenor, Telespazio, Thales Alenia Space, ASI, CNES, DLR, ESA, IKI, NASA, NIVR, University of Applied Science Bremen, Delft University of Technology and Trieste University.

The Unique Assets of SpaceTech

• Unique Master's Degree Program

The program introduces innovative concepts and time-tested methods to give participants the competencies required for the development and operations of future space missions and new businesses, while allowing them to meet current employment commitments.

• Highly Effective in Improving Technical and Business Competencies

The majority of the alumni have made major upward career steps within 3 years of graduation as a result of their participation in the program.

• World-wide Recognition in the Space Community

The SpaceTech program has been developed with and is supported by international and national space agencies as well as a number of leading industrial space companies.

• The Best Price-Quality Ratio

SpaceTech offers the best price to quality ratio with a unique approach. It employs the most advanced training techniques, outstanding and internationally recognized instructors, mentors and coaches.

• Designed for Working Professionals

The curriculum and the sessions of SpaceTech are designed to allow participants to meet business commitments between sessions. SpaceTech is a fast track, efficient Master's Degree program requiring only 10 weeks of in-session time.

• Attractive Session Locations

Sessions are held at international centers of space activity such as Delft - The Netherlands (TU Delft), Toulouse - France (CNES), Munich - Germany (DLR), Rome

- Italy (ESRIN) and Noordwijk - The Netherlands (ESTEC), with future sessions planned in the USA.

• The Best Instructors

Our internationally recognized instructors, from academia, industry or space organizations, are outstanding experts in the field of space engineering and business - highly experienced, enthusiastic and stimulating.

• Continuous Program Improvement

Each lecture and exercise is evaluated thoroughly. SpaceTech incorporates a Core Curriculum Committee which is responsible for the content of the program. It fine-tunes the program five times per year.

• Mentored Case Studies

Participants learn best practices while interacting with industry experts and leaders in the focused Central Case Project studies.

• Active International Alumni Association

SpaceTech has Alumni in key positions in the space industry worldwide, national and international space agencies, and in academia. The networking possibilities that this provides give access to invaluable information and opportunities.

SpaceTech

MASTERING SPACE SYSTEMS

Sign up for the next
SpaceTech Program

Qualification for Admission

Applicants will be admitted on the basis of their academic and professional achievements and ambitions and should have a university degree in an appropriate engineering or physical science discipline and relevant working experience. Proficiency in the English language is required. Acceptance to the program is based on a completed application form, followed by a personal interview.

Further information

Additional information regarding the SpaceTech program, including information on how to apply, tuition fees, deadline for application, detailed program content and more, can be found on the SpaceTech website: www.spacetechn.tudelft.nl.

SpaceTech also offers, for a limited number of visitors, the opportunity to attend one or more of its class-room program modules.

Contact information

SpaceTech Program Office
P.O.Box 5058
2600 GB Delft
The Netherlands

Tel: +31 (0)15 278 33 06
spacetechnsupport@tudelft.nl
www.spacetechn.tudelft.nl

