



## Master Program on Space Technology Applications

### Overview

Space technology and its applications, the most fascinating technical achievement of the human race in the last four decades, has undoubtedly advanced with great stride. The various practical benefits of space technology play a central role in international development efforts.

In order to transform the recommendations of the United Nations Programme on Space Applications (UN-PSA) into a practical and an operational program, Beihang University has initiated the Master program on Space Technology Applications (MASTA) since 2006, and the program has been held nine times successfully till now. 100 students have graduated and got the Master's Degree on Space Technology Applications. 61 MASTA students from 18 countries are studying at Beihang.

MASTA is an elaborately designed and intensive Master program for students who are interested in exploring the mysterious universe. This application-oriented program focuses on both knowledge acquisition and operational training. It aims to deliver International, Interdisciplinary, Intercultural, Innovative, Identical (5Is) education and provide a powerful platform for scholars and professionals to obtain more opportunities for communicating and experiencing the space technology practice in China.

MASTA is designed to give participants a competitive edge by:

- > Broadening their knowledge on space-related issues and activities and encouraging participants to use acquired knowledge and skills through practical, hands-on experience
- > Developing the skills necessary for working effectively with colleagues from a diverse range of disciplines and cultures
- > Placing the participants at the frontier of the industry through contact with space professionals
- > Complying with international conventions
- > Modularized curricula design
- > Flexible study modes

This program is carried out according to the regulations and requirements of Beihang University. The total duration of study is 1 year and 9 months in general.

Phase I Course Study in China: 9 months (at Beihang University) (Leading to Course completion Certificate)				
	Module I	Module II	Module III	
Formulation of an Individual Training Plan	Common Platform Courses	<ul style="list-style-type: none"> <li>• Major courses</li> <li>• Academic Lectures</li> </ul>	<ul style="list-style-type: none"> <li>• Team Pilot Project</li> <li>• Practice Courses</li> <li>• Professional Visits</li> </ul>	
Phase II Thesis Research: 12 months (in China or home country) (Leading to Master's Degree in Engineering)				
Literature Survey and Thesis Proposal	Mid-term Assessment	Academic Activities	Thesis Research	Thesis Defense

## **Major**

MASTA - Global Navigation Satellite Systems (GNSS)

MASTA - Micro-Satellite Technology

MASTA - Remote Sensing and Geo-information System (RS & GIS)

## **Faculty and Partners**

The faculty for this program consist of professors, experts and senior engineers from Beihang University and some other institutes or academies from China and abroad. The core faculty has long and varied experience in the field of space science and technology. In addition, they have acquired considerable experience over the years and are skilled in teaching and advising international students.

## **Degrees**

After the 9-month course study at Beihang University, each participant is expected to complete a Master's Degree Thesis (1 year) at Beihang University/in Homeland.

Under the guidance of supervisors, participants are expected to select their research topics closely related to the practical space technology application projects in their home countries.

The evaluation will be mainly focused on the topic of the thesis, range of the writer's knowledge, value and prospect of the thesis, etc.

Participants will be awarded with the Graduation Certificate of Beihang University and Master's Degree Certificate of the People's Republic of China when fulfilling the required credits and passing the thesis defense.

## **Application Qualifications**

The applicant should be under the age of 35 in general;

The applicant should have some professional experiences of working in space technology industry or research institutes;

The applicant should have Bachelor Degree of relevant discipline or the diploma equivalent to Bachelor Degree;

The applicant is supposed to have research background in relevant areas;

The applicant is expected to have good command of English and the ability to take courses in English;

## **Contact Information**

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