## MASTA Master Program on Space Technology Applications Remote Sensing and Geo-information System (RS & GIS)

**Beihang Library** 

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

Study at

The parctical benefits of space technoloties have played a significant role in promoting social development.

Overview

(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 in 2016.

Space technology and its applications, the most fascinating technical achievement of

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

the human race in the last four decades, has undoubtedly advanced with great stride.

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.

Study at



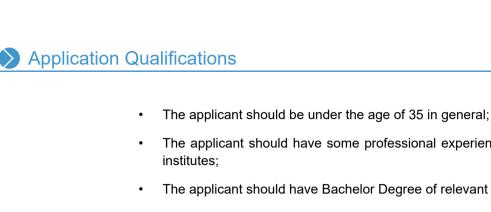


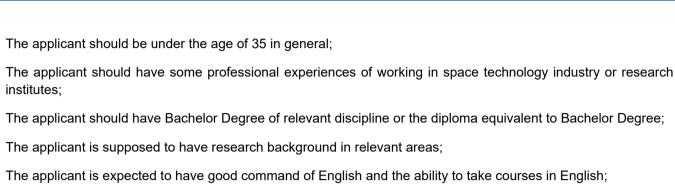
The main education and training fields of the Centre include Remote Sensing and Geographic Information System, Satellite Communications, Global Navigation Satellite System, Micro-satellite Technology, Space Law and Policy, The Centre has established extensive cooperation with space industries. A

variety of internships and hands on opportunities are provided to the participants.

The Centre has internationally qualified academic and administrative staff with excellent facilities for education, accommodation and recreation. Presently, the Centre has 10 member countries including Algeria, Argentina, Bangladesh, Bolivia, Brazil, China, Indonesia, Pakistan, Peru and Venezuela.







1. The applicants are welcome to apply for the Chinese Government Scholarship (CSC Scholarship) at Beihang

Free accommodation during study at the University (not including water and electricity, etc. costs);

Scholarship. Beijing Municipal/Beihang Scholarship will only cover tuition fee.

Note: The online application will begin around the middle of December 2016.

Two Recommendation Letters from Professors or Academic Experts;

7. Photocopy of the homepage of Passport (the information page); 8. The List of Application Documents and Post Address confirmed.

Photocopy of Physical Examination Form and the Report on Blood Examination.

Living allowance during stay at the University (3000 RMB /per month or according to standard by CSC);

Medical Insurance only for accidents and hospitalization treatments, according to the standard of CSC;

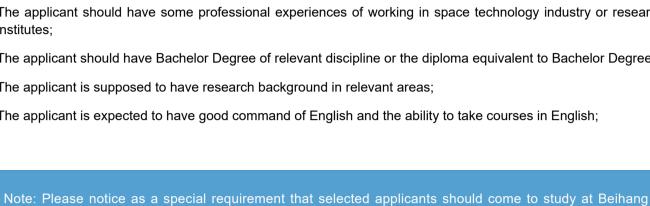
2. The applicants who fail to get the CSC Scholarship will have chance to get Beijing Municipal/Beihang

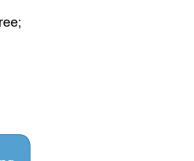
University with their Private Passports only (not official/service/other types of passport).

The Full CSC scholarship will cover the following items:

Tuition fee for 9 months course study at the University;

Tuition fee for 1 year advanced research project;





Study at

Study at



Beihang University is **10006**.

Notarized Transcripts or original ones;

Tel: +86-10-82339734, +86-13581523872

Host Institution: Beihang University

Beihang University (BUAA), formerly called Beijing University of Aeronautics and Astronautics, was founded in

time students, including 13,000 postgraduates. Over 2,000 international students from more than 100 countries are studying at Beihang in 2016. Among them over 1,200 are studying for degree programs, including more than 700 master and doctoral students, and more than 300 are studying Chinese language in Chinese Language Training

The University has been reputed for its competitive edge in such disciplines as aeronautics and astronautics, instrument science and technology, computer science and technology, management science and engineering, etc. English or Chinese are used as instruction language for

Beihang is one of the top universities in China equipped

Center of Beihang.

master and doctoral programs.

Study or Research Plan (no less than 500 words);

Step

Scholarship and Financial Support

University.

**Prepare documents** 1. Application Form for Chinese Government Scholarship; Highest Education Diploma (notarized photocopy or original one) or Certificate of Expected Graduation Date from the university studying currently;

Make the online application for Chinese Government Scholarship via the official website of CSC (http://studyinchina.csc.edu.cn). Please fill up the Application Form, submit the completed Application Form and supporting documents online and print the Application Form according to the requirements. Please note that the specialty should be chosen as "Space Technology Applications" and the language of instructions should be chosen as "English". Please also note that the "Program Category" should be "Type B" and the "Agency Number" of

- **Submit documents** Mail all required documents to the following address before March 25th, 2017. Ms. Guo Yuanyuan
- 1952 and has been one of the state key universities of China since 1950s. Through more than 60 years development Beihang has grown into one of the nation's foremost research universities, combining disciplines in science, engineering, humanity, law, economics, management, and education, while maintaining the leading role in technology. Beihang has now a total enrolment of over 29,000 full-

Address: International School of Beihang University, No. 37 Xueyuan Road, Haidian District, Beijing 100191, P.R. China.

that we can get your information in advance. And mail all the required documents to the Contact Person at RCSSTEAP(China)

with advanced laboratories and teaching facilities. Xueyuan Road Campus is located in the heart of "China's Silicon Valley" - Zhongguancun Science Park. The campus of Beihang is notable for its beautiful environment, convenient transportation, and completed living services, including various sports facilities, bank, post office, supermarkets, canteens, etc.

**Important Dates August 2017**. successful applicants around August 15, 2017.



Study at

**Module III** 

Team Pilot Project

**Practice Courses** 

Thesis Research

**Professional Visits** 

Thesis Defense

Study at

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.

natural resource management, environmental monitoring, disaster assessments, and other related fields. Some leading national and international geoinformatics practitioners will be invited to lead training or seminars to highlight industrial, commercial and governmental

> Phase I Course Study in China: 9 months (at Beihang University) (Leading to Course completion Certificate)

Phase II Thesis Research: 12 months (in China or home country) (Leading to Master's Degree in Engineering)

Module II

Major courses

**Academic Lectures** 

Academic Activities

Referring to the Education Curricula of UN-PSA, Master programs on Space Application would be completed in two phases:

(b) 12 months for Advanced Research Project (at Beihang University or in applicant's homeland)

Module I

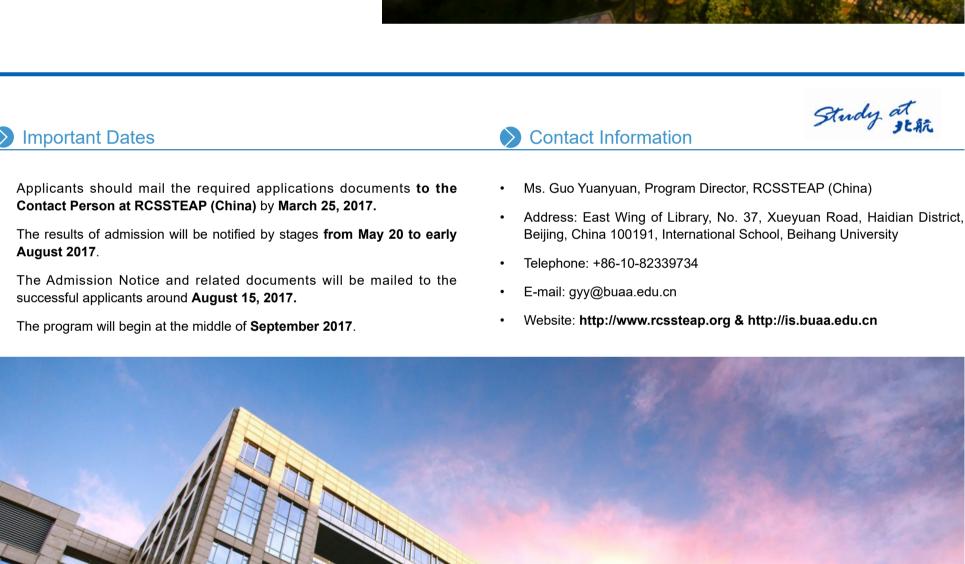
Common Platform Courses

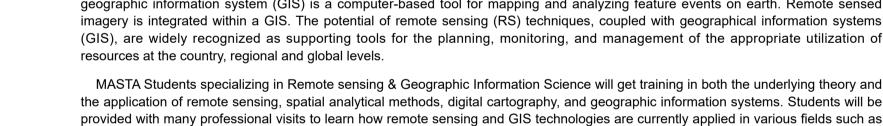
Mid-term Assessment

UNITED NATIONS

Office for Outer Space Affairs

Study at 9-month Course List **Credits** Item **Class Hrs** Remark **Module I Platform Courses** Probability and Statistics in Engineering 3 48 Select at least 3 Theory of Matrix 48 3 compulsory credits **Numerical Analysis** 48 3 2 Matlab Programming 32 Compulsory PC3-1 3 Space Environment, Orbit and Spacecraft Systems 48 Compulsory Space Technology and Space Economy PC3-3 18 1 Optional Introduction to China and Chinese Language 54 3 Compulsory Module II Major Basic Courses & Major Courses MC3-1 Principle of Remote Sensing 18 1 Compulsory Physical Principles of Microwave Remote Sensing MC3-2 32 2 Compulsory MC3-3 Geographic Information System: Principle, Design and Practice 32 2 Compulsory MC3-4 Remote Sensing Image Visual Interpretation 32 2 Compulsory MC3-5 Remote Sensing Image Processing and Software Application 18 1 Compulsory Geographic Project Design and Management MC3-6 32 2 Compulsory **Module Ⅲ Team Pilot Projects** Team Pilot Project 12 Weeks 8 Compulsory





applications.

Training Program

Formulation of an

Individual Training Plan

Literature Survey and

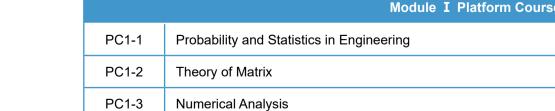
Thesis Proposal

**Degrees** 

(a) 9-month Course Study



China 中科匯感



民政部国家减灾中心

No.

PC2-1

PC4-1

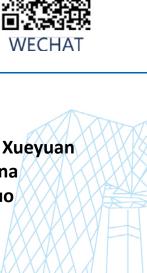
PPC















**WECHAT: UN\_Centre**