on Space Technology Applications Global Navigation Satellite Systems (GNSS)

the human race in the last four decades, has undoubtedly advanced with great stride. The parctical benefits of space technoloties have played a significant role in promoting social development.

In order to transform the recommendations of the United Nations Programme on

Overview

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

Study at

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 in 2016.

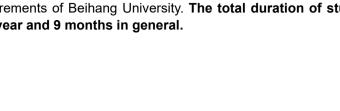
Space technology and its applications, the most fascinating technical achievement of

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

MASTA is an elaborately designed and intensive Master

scholars and professionals to obtain more opportunities for

- through contact with space professionals Complying with international conventions
- Modularized curricula design Flexible study modes







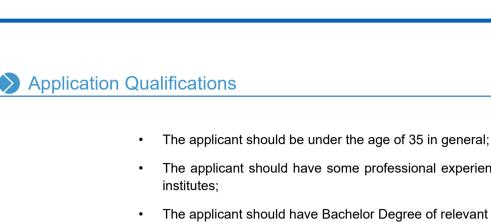
implementation of "Programme on Space Applications" promoted by COPUOS and to the enhancement of the education and training level as well as application capacity of space science and technology in Member States of the Centre through capacity building, information communication, training programs and professional visits. For the purpose of facilitating the UN Space Applications Program and demands of the Asia-Pacific countries regarding space science and technology education, the Centre offers degree and non-degree programs with academic exchanges and consultation carrying out in the field of space technology applications.

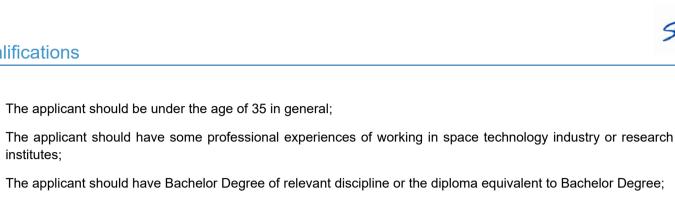
The main education and training fields of the Centre include Remote Sensing and Geographic Information System, Satellite Communications, Global Navigation Satellite System, Micro-satellite Technology, Space Law and Policy,

The Centre has 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. The Centre has established extensive cooperation with space industries. A

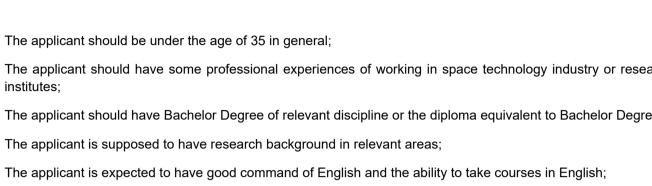
variety of internships and hands on opportunities are provided to the participants.







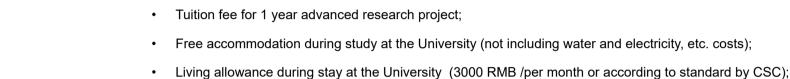
Note: Please notice as a special requirement that selected applicants should come to study at Beihang





Study at

Study at



Step

Apply online 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

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

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

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

- Notarized Transcripts or original ones; Study or Research Plan (no less than 500 words); Two Recommendation Letters from Professors or Academic Experts; Photocopy of Physical Examination Form and the Report on Blood Examination. 7. Photocopy of the homepage of Passport (the information page); 8. The List of Application Documents and Post Address confirmed.
- Host Institution: Beihang University

Submit documents

Ms. Guo Yuanyuan

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

studying for degree programs, including more than 700 master and doctoral students, and more than 300 are

English or Chinese are used as instruction language for

various sports facilities, bank, post office, supermarkets,

Applicants should mail the required applications documents to the

master and doctoral programs.

Important Dates

August 2017.

canteens, etc.

education, while maintaining the leading role in technology. Beihang has now a total enrolment of over 29,000 fulltime 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

Beihang is one of the top universities in China equipped 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

technologies on GNSS.

two phases:

successful applicants around August 15, 2017.





(a) 9-month Course Study (b) 12 months for Advanced Research Project (at Beihang University or in applicant's homeland) Study at Training Program Phase I **Course Study in China: 9 months (at Beihang University)** (Leading to Course completion Certificate) Module I **Module II Module III** Team Pilot Project Formulation of an Major courses **Common Platform Courses Practice Courses** Individual Training Plan **Academic Lectures Professional Visits** Phase II Thesis Research: 12 months (in China or home country) (Leading to Master's Degree in Engineering) Literature Survey and Mid-term Assessment **Academic Activities** Thesis Research Thesis Proposal

After the 9-month course study at Beihang University, each participant is expected to complete a Master's Degree

Under the guidance of supervisors, participants are expected to select their research topics closely related to the

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

Participants will be awarded with the Graduation Certificate of Beihang University and Master's Degree Certificate

The faculty for this program consists 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.

of the People's Republic of China when fulfilling the required credits and passing the thesis defense.

Thesis (1 year) at Beihang University/in Homeland.

The partners of this program include:

prospect of the thesis, etc.

practical space technology application projects in their home countries.

9-month Course List

No.

PC1-1

PC1-2

PC1-3

PC2-1

PC3-1

PC3-2

PC3-3

PC4-1

MC3-1

MC3-2

MC3-3

MC3-4

MC3-5

MC3-6

MC3-7

PPC

Degrees

Faculty and Partners

48 32 Space Environment, Orbit and Spacecraft Systems 48 Introduction to Space Law 18

Module I Platform Courses

Item

Probability and Statistics in Engineering

Space Technology and Space Economy

Introduction to China and Chinese Language

Theory of Matrix

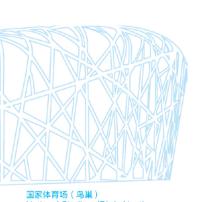
Numerical Analysis

Matlab Programming

Module II Major Basic Courses & Major Courses **GNSS Reference System** Compulsory Principle of GNSS 2 Compulsory 32 **GNSS** Receiver Principles and Design 32 2 Compulsory 2 **GNSS/INS Integration Navigation** 32 Compulsory **GNSS Applications** 18 1 Satellite Navigation Data Processing 32 2 **GNSS Experiment** 18 1 Module Ⅲ Team Pilot Projects Team Pilot Project 12 Weeks

Regional Centre for Space Science and Technology Education in Asia and the Pacific (China) (Affiliated to the United Nations) 联合国附属空间科技教育亚太区域中心(中国) **Contact** Information







Placing the participants at the frontier of the industry

- 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 Regional Centre for Space Science and Technology Education in Asia and the Pacific (China) (affiliated to the United Nations) (RCSSTEAP in short) was established on November 17, 2014. The Centre is located at the main campus of Beihang University, Beijing, China. The Centre, as an education and training entity supported by the Committee on the Peaceful Uses of Outer Space (COPUOS), was established with a mission to promote the peaceful use of space technologies for the benefit of humanity and to sensitize the countries within the region about space science and technology activities by educating and creating awareness through training, workshops, short courses, and outreaches. It seeks to contribute to the



Application Procedures and Required Documents

Beihang University is **10006**.

studying currently;

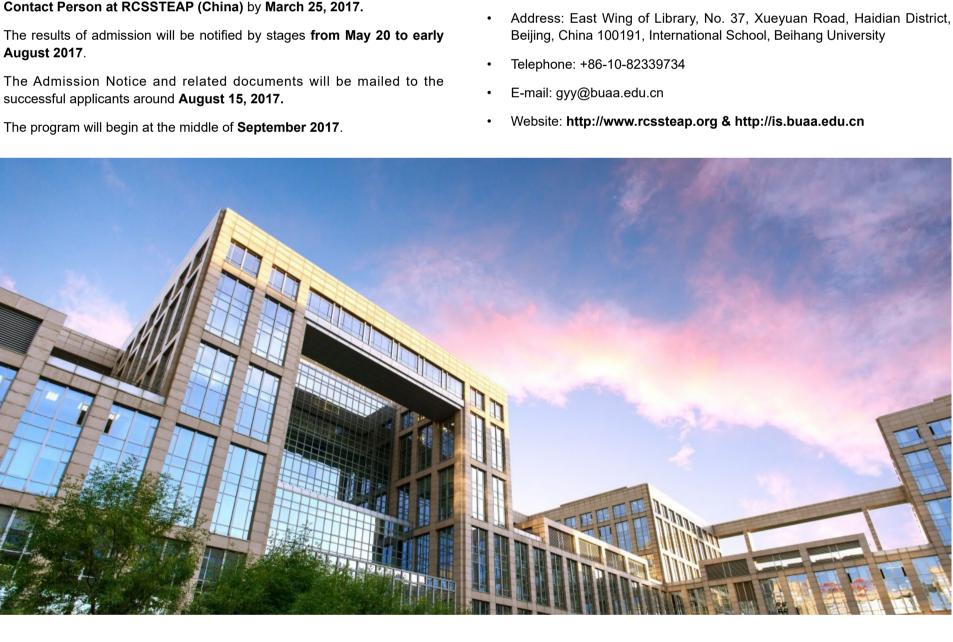
The applicant is supposed to have research background in relevant areas;

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

- **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
- Address: International School of Beihang University, No. 37 Xueyuan Road, Haidian District, Beijing 100191, P.R. China. Tel: +86-10-82339734, +86-13581523872 that we can get your information in advance. And mail all the required documents to the Contact Person at RCSSTEAP(China)

Mail all required documents to the following address before March 25th, 2017.

studying Chinese language in Chinese Language Training Center of Beihang. 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.



Contact Information

Ms. Guo Yuanyuan, Program Director, RCSSTEAP (China)

Study at

Global Navigation Satellite Systems (GNSS) Global Navigation Satellite System (GNSS) provides positioning, navigation and timing services for the whole world. It is the most important spatial infrastructure in the social life and military applications in modern times. The GNSS would serve people in many areas together with Remote Sensing, Geographical Information System such as disaster management, emergency response, land, aviation and maritime transportation, etc. The objective of the program is to enable the students to master the space segment of the GNSS including the satellite constellation, orbit and the payload for clock, signal source, communication and attitude control, the ground segment including the satellite maintenance, telemetry, ephemeris and almanac, and the user segment including receiver and navigation applications. This program also provides opportunity for students to have access to frontier Referring to the Education Curricula of UN-PSA, Master programs on Space Application would be completed in

TIONALE DE L'AVIATION CIVILE

Class Hrs

48

48

18

54

Credits

3

3

3

2

3

1

1

3

Remark

Select at least 3

compulsory credits

Compulsory

Compulsory

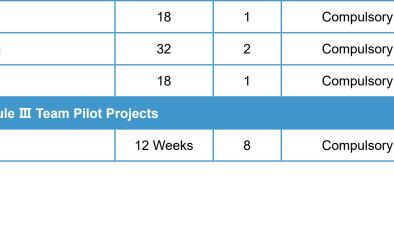
Optional

Optional

Compulsory

Study at

Study at







ADD: East Wing of Library, Beihang University, No. 37 Xueyuan Road, Haidian District, Beijing, 100191, P. R. China **CONTACT PERSONS:** Ms. Guo Yuanyuan, Ms. Cui Yizhuo EMAIL: gyy@buaa.edu.cn; cuiyizhuo@buaa.edu.cn TEL: +86-10-82339734 FAX: +86-10-82339326 WEB: www.rcssteap.org **WECHAT: UN_Centre**