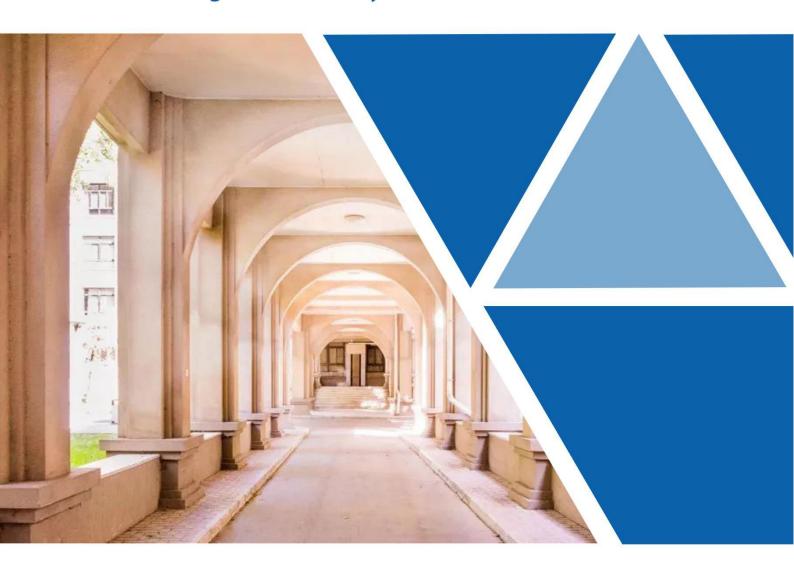


SC&GNSS

Satellite Communications and Global Navigation Satellite Systems



MASTA&DOCSTA 2021
Admission Announcement

Overview

Space technology and its applications, the most fascinating technical achievement of the human race in the last six 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 operable program, Beihang University has initiated the Master program on Space Technology Applications (MASTA) since 2006, and the program has been held 13 times with success till now. The MASTA program has enrolled totally 348 postgraduate students from 25 countries, among which 256 students have graduated and obtained the Master's Degree on Space Technology Applications. In 2013, Doctoral Programme on Space Technology Applications (DOCSTA) started, and the program has been held 8 times with success till now. This program has enrolled totally 83 doctoral students from 14 countries, among which 22 students have graduated and obtained the Doctoral Degree on Space Technology Applications.

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. The DOCSTA program is focusing on training the participants in solid theoretical knowledge and systematic expertise in the field of space technology applications. MASTA&DOCSTA aims to deliver "International, Interdisciplinary, Intercultural, Innovative, Identical (5I)" 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;
- Providing variety practice opportunities (include watching satellite launching on site, attending international conferences/workshops, etc.);
- Internationally qualified professors and experts from a diversity of academic backgrounds;
- Modularized curricula design and flexible study modes;
- ♦ Developing the cross-cultural communication skills with an internationalized atmosphere.

The main educational fields of MASTA Program include Remote Sensing and Geographic Information Systems (RS&GIS), Satellite Communications, Global Navigation Satellite System (GNSS), Micro-satellite Technology, Space Law and Policy, Space Science and Environment, etc.

Doctoral Participants are expected to have the ability of conducting the scientific research, exploring the applications or pursuing the professional careers in the related fields independently.

Candidates are expected to have a profound grasp and understanding of new technology and development in space science technology and applications. They are required to finish the dissertation with high practicability and application prospects.

Lectures are conducted in English. The thesis for project practice is required to be written in English.

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

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

For more details, please visit our website: http://rcssteap.buaa.edu.cn/kjkjjyev/Education.htm

Beihang University

Beihang University (previously known as Beijing University of Aeronautics and Astronautics) was founded on October 25, 1952 under the name of Beijing Institute of Aeronautics, originating from the merger of the aeronautical departments of Tsinghua University, Beiyang University, Xiamen University, Sichuan University, etc. Located in the center of the Zhongguancun Science Park and within easy reach of central Beijing, Beihang is the first university in China focusing on aeronautical and astronautical education and research. About 26km away from the main campus, the suburban Shahe campus provides quiet study milieu and is also home to the National Laboratory of Aeronautics and Astronautics (NLAA). The very new Doudian campus aims at research and innovation through engineering combined with medicine.

For more details, please visit: https://ev.buaa.edu.cn/

Training Mode

The credit system is applied to postgraduates studying in China, which includes course study, practice and degree thesis. The tutor shall bear the responsibility for training of international postgraduates. The tutor (group) should be responsible for making the training plan of international students, guidance of their thesis proposals, scientific research and their thesis writing.

No changing in major or tutor is permitted after three months since the registration unless there is a special reason.

For more details, please visit our website:

MASTA- http://rcssteap.buaa.edu.cn/kjkjjyev/Education/MASTA Program.htm

DOCSTA- http://rcssteap.buaa.edu.cn/kjkjjyev/Education/DOCSTA Program.htm

Qualifications

- ❖ Follow the laws and regulations of the People's Republic of China and Beihang University rules.
- → The applicant must be non-Chinese citizens with a valid passport in compliance with the provisions of Nationality Law of the People's Republic of China, under the age of 35 for MASTA, under the age of 40 for DOCSTA;
- ♦ The applicant should have some professional experiences of working in space technology industry or research institutes;
- → The applicant for MASTA should have Bachelor Degree of relevant discipline or the diploma equivalent to Bachelor Degree; The applicant for DOCSTA should have Master's Degree of relevant discipline or have the equivalent educational background of a Master's degree;
- ♦ The applicant is expected to have good command of English and the ability to take courses in English;
- ♦ The applicant is supposed to have research background in relevant areas;
- ♦ According to the relevant regulations, former residents of mainland China, Hong Kong, Macau and Taiwan who have emigrated to other countries and apply as international students, must present valid passport or citizenship documents dating before April 30, 2017 and proof of cancellation of Chinese nationality.

Note: Please notice as a special requirement that selected applicants should come to study at Beihang University with their Private Passports only (not official/service/other types of passport).

Applicants of this program are mostly recommended by organizations. Students who are interested to do self-sponsor, please visit website (http://admission.buaa.edu.cn/) for further information.

Fees

- → Tuition Fee: 35000 Yuan (RMB) / year for MASTA, 42000 Yuan (RMB) / year for DOCSTA;
- ♦ Insurance: 800 Yuan (RMB) per year;
- ♦ Accommodation: Double-bed room, 750 Yuan (RMB)/month, per bed (not including costs like water, electricity, etc.).

Note: This program is mainly for directional enrollment. Students who are interested to do self-sponsor, please visit website (http://admission.buaa.edu.cn/) for further information.

Scholarship

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

The Full CSC scholarship will cover the following items:

♦ Tuition fees,

- ♦ Accommodation,
- ♦ Living allowance,
- ♦ Comprehensive insurance.
- The applicants who fail to get the CSC Scholarship will have chance to get Beijing Municipal/Beihang Scholarship. Beijing Municipal/Beihang Scholarship will only cover tuition fee.

Required Documents

- 1. Application Form for Chinese Government Scholarship;
- 2. Highest Education Diploma (notarized photocopy or original one) or Certificate of Expected Graduation Date from the university studying currently;
- 3. Notarized Transcripts;
- 4. Study or Research Plan (no less than 500 words);
- 5. Two Recommendation Letters from Professors or Academic Experts;
- 6. The Results of TOEFL, IELTS or English Proficiency Certificates;
- 7. Photocopy of Physical Examination Form and the Report on Blood Examination;

Attachment 1-FOREIGNER PHYSICAL EXAMINATION FORM.pdf

- 8. Photocopy of Remittance Receipt for Application Fee (RMB 400 or USD 70)
- 9. Photocopy of First Page of Passport (the information page);
- 10. Resume (if the study or work experience is not continuous, please attach an explanation)
- 11. An Integrity Commitment letter to ensure the authenticity of all the application materials you provide.

Attchment 2- the Integrity Commitment Letter template

12. Non-Criminal Record Report (If applicant is unable to provide this document, as a substitute, applicant should explain the situation and provide a non-criminal record commitment in handwriting)

Attchment 3- non-criminal record commitment template

13. The List of Application Documents and Post Address confirmed.

Attachment 4- List of Application Documents.doc

Note: -All the documents should be in duplicate. And the language of documents should be in English or Chinese or attached with translations in English or Chinese.

- -Application process will only start after your application fee well-received.
- -If there are any authenticity issues with your application materials, your application qualification will be

cancelled immediately.

-The Non-Criminal Record Report is a required document in the CSC system. Applicants who fail to upload this document will not be able to complete the application online.

How to apply

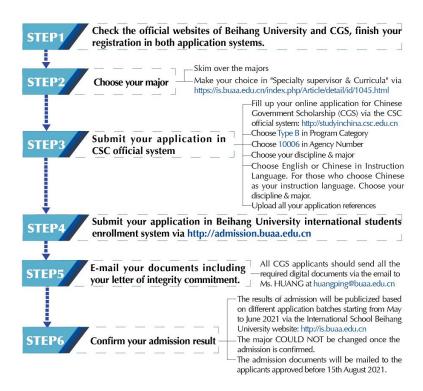
- Applicants shall follow the instruction as below to execute your application process, please be careful with your choice for the correct Program Category "TYPE B" and accurate Agency Number for Beihang University "10006".
- ♦ Please note that the specialty should be chosen as "Space Technology Applications" and the language of instructions should be chosen as "English".
- All applicants shall submit your application in both Beihang University International Students Enrollment System and CSC official system. Links are as below:

Beihang International students enrollment system: http://admission.buaa.edu.cn

CSC system: http://studyinchina.csc.edu.cn

Please notice:

- -If the CSC system is not open registration, you may follow the CGS website and pay attention to their notice about the official schedule.
- -Beihang university never authorize any intermediary agency to carry out scholarship enrollment. Please do not trust paid services and false promises from intermediaries.
- -The major COULD NOT be changed once your admission is confirmed.
- -Please make sure all the documents and material are saved as ONE PDF file.



Contact & Beneficiary info

♦ You may find more details and FAQ via http://is.buaa.edu.cn/en/info/1416/2324.htm.

Please mail all required documents to the following address before March 15, 2021.

Ms. Jessica ZHUANG

Address: ASIA-PACIFIC SPACE COOPERATION ORGANIZATION (APSCO)

Building 13&14, Section 3, No.188, South Street Fourth Ring, Fengtai District,

Beijing, China

Tel: +86-10-63702677-405

Note: In order to speed up your application process, scanned copies can be emailed to the Contact Person: jessica@apsco.int so that we can get your information in advance. And mail all the required documents to the Contact Person at APSCO by the already set deadline (March 15, 2021). APSCO and Beihang University will acknowledge the receipt of your application after evaluation. No application documents will be returned after submission.

♦ Beneficiary info for Application Fee (*Remittance)

For USD

Beneficiary Name: BEIHANG UNIVERSITY

Account No.: 0200006209026400229

Beneficiary Banker's Name: Industrial and Commercial Bank of China, Beijing Dongsheng Road

Branch, Beijing, China

Swift Code: ICBKCNBJBJM

For RMB

账户名:北京航空航天大学 账号:0200006209026400229

收款行: 中国工商银行北京分行东升路支行

Please notice

-Application Fee paid in cash would not be accepted.

Important Dates

- ♦ Applicants should mail the required applications documents to the Contact Person at APSCO by March 15, 2021.
- ♦ The program will start in early September 2021.

Contact Information

- ♦ Ms. Jessica ZHUANG
- ♦ Address: ASIA-PACIFIC SPACE COOPERATION ORGANIZATION (APSCO)
- ♦ Building 13&14, Section 3, No.188, South Street Fourth Ring, Fengtai District,
- ♦ Beijing, China
- ♦ Telephone: +86-10-63702677-405
- ♦ E-mail: jessica@apsco.int
- ♦ Website of APSCO: http://www.apsco.int
- ♦ Website of International School, Beihang University: http://is.buaa.edu.cn
- ♦ Website of Beihang University: http://ev.buaa.edu.cn/
- ♦ Website of China Scholarship Council: http://studyinchina.csc.edu.cn

In 2021, MASTA Program provides three educational fields: Satellite Communications and Global Navigation Satellite Systems (SC&GNSS), Remote Sensing and Geo-information System (RS&GIS), Micro-satellite Technology. The followings are detailed information of SC&GNSS.

Satellite Communications and Global Navigation Satellite Systems (SC&GNSS)

Satellite Communications are space radio communications between stations on Earth (including land, water and the lower atmosphere), using artificial earth satellites as relay stations to transmit radio waves. Global Navigation Satellite System (GNSS) provides positioning, navigation and timing services for the whole world, and China has announced the commissioning of BDS-3 navigation system. Communications and navigation satellites are the most important national spatial information infrastructure in the social life and military affairs in modern times. They would serve people together with Remote Sensing and Geographical Information System in many areas, such as global personal communications, disaster management, emergency response, landing, aviation and maritime transportation, etc.

The objective of the program is to enable the students to master the principles, technologies and systems of satellite communications, as well as the special problems and technologies of internet services and broadband integrated services in satellite communication systems. In addition, the GNSS principles, receiver design, data processing and application cases are introduced. The program also provides opportunities for students to touch the frontier technologies on Satellite Communications and GNSS.

9-month Course List

No.	Item	Class Hrs	Credits	Remark			
Module I Platform Courses							
PC1-1	Probability and Statistics in Engineering	48	3	Select one			
PC1-2	Theory of Matrix	48	3	of them.			
PC1-3	Numerical Analysis	48	3	Compulsory			
PC2-1	Matlab Programming	32	2	Compulsory			
PC3-1	Space Environment, Orbit and Spacecraft Systems	48	3	Compulsory			
PC3-2	Introduction to Space Technology Applications	16	1	Compulsory			
PC3-3	International Cooperation in the Peaceful Uses of Outer Space	16	1	Compulsory/ Optional			
PC4-1	Chinese (level 1)	60	2	Compulsory			
PC4-2	Chinese (level 2)	60	1	Compulsory			
PC4-3	Introduction to China	16	1	Compulsory			
PC5-1	Scientific Literature Retrieval	16	1	Compulsory/ Optional			
Module II Major Basic Courses & Major Courses							
MC2-1	Principles of Wireless Communications	32	2	Compulsory			
MC2-2	Principle of Global Navigation Satellite Systems	32	2	Compulsory			
MC2-3	GNSS Receiver Principles and Design	32	2	Compulsory			

No.	Item	Class Hrs	Credits	Remark
MC2-4	Satellite Navigation Data Processing	32	2	Compulsory
MC2-5	GNSS/INS Integration Navigation	16	1	Compulsory
MC2-6	Satellite Communications and Satellite Networks	32	2	Compulsory
MC2-7	Satellite Laser Communications	16	1	Compulsory
MC2-8	Antennas in Satellite Communications	16	1	Compulsory
MC2-9	SatCommu./GNSS Experiments	16	1	Compulsory
PPC	Team Pilot Project	2 months	6	Compulsory

Professionals/Experts

Please visit: http://rcssteap.buaa.edu.cn/kjkjjyev/Education/Faculty Staff/Faculty.htm

Partners

Please visit: http://rcssteap.buaa.edu.cn/kjkjjyev/Cooperation/Partners.htm

Facilities

Please visit: http://rcssteap.buaa.edu.cn/kjkjjyev/Life_at_RCSSTEAP/Facilities.htm