

Post-graduate study on Nano-Satellite Technologies (PNST) 2023 Round Webinar



 Thursday 3 November
 1 PM CET



UNITED NATIONS
Office for Outer Space Affairs



Kyutech
Kyushu Institute of Technology



Access to Space for All

Space Technology Capacity Building

The goal of the Access to Space 4 All initiative is to provide research and orbital opportunities for UN Member States **to access space and to ensure that the benefits of space, in particular for sustainable development, are truly accessible to all**



Provides the possibility of developing hands-on capabilities from A-Z in to promote the safe and sustainable use of outer space



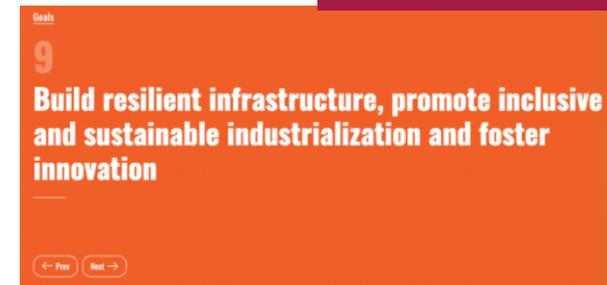
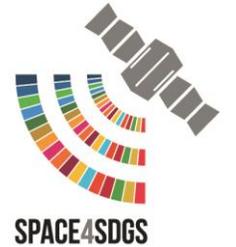
Provides cutting edge skills for jobs and other opportunities



Fosters international cooperation between the UN, space-faring partners, and applying developing nations



Has a strong social impact to the country, regions, and young generations





Access to Space for All

Impact of the initiative



HyperGES "Watermeal, the Future Food Source for Space Exploration"

HyperGES and community impacts

- Expand space-related knowledge and awareness in Thailand
- Flagship program in astroculture, produce intensive research environment
- Team up with other organization. Stepping out of their comfort zone encouragement



FIRST MAURITIAN SATELLITE – OPENING NEW OPPORTUNITIES

JOURNEY TO SPACE ALTHOUGH NOT EASY BUT EXTREMELY REWARDING AND OFFERS HIGHLY PROMISING FUTURE

MAURITIUS EMBARKS IN NEW SPACE ERA

- Geolocation interesting for future space related activities
- More advanced space nations interested to collaborate

BOOST TECHNICAL CAPACITY

- Building highly technical capacity
- Sophisticated ground station for future missions set up
- Training of younger generation

A POTENTIALLY NEW SOCIO-ECONOMIC PILLAR

- Space offers numerous possibilities for Mauritius. Data analytics, opportunities for R&D, business opportunities, intergovernmental collaborations.

ENTHUSIASTIC YOUNGSTERS

- The training program on antenna building gave us an insight of the high level of enthusiasm for this new field. There is hope to enhance this interest further to build new capacity.

GOVERNMENT FULLY SUPPORTIVE

- This historical initiative for the Republic of Mauritius promises to unlock new opportunities for research, innovation and socio-economic development.



3. How has participating in DropTES changed the environment around you?



Acta Astronautica
Volume 173, August 2019, Pages 861–881

SHELUM: A student experiment to investigate the sloshing of magnetic liquids in microgravity

Abstract: This paper reports on the results of a student experiment, SHELUM, which investigated the sloshing of magnetic liquids in microgravity. The experiment was conducted on the International Space Station (ISS) during the STS-135 mission. The results show that magnetic liquids exhibit unique sloshing behavior in microgravity, which is different from their behavior on Earth. This behavior is due to the combination of magnetic forces and surface tension forces. The experiment provides valuable insights into the behavior of magnetic liquids in space, which is important for the design of microgravity experiments and the development of new technologies for space exploration.

Free surface reconstruction of opaque liquids in microgravity. Part 1: design and on-ground testing

Abstract: This paper reports on the design and on-ground testing of a microgravity experiment to investigate the free surface reconstruction of opaque liquids in microgravity. The experiment was designed to measure the free surface of a liquid in a microgravity environment. The results show that the free surface of a liquid in microgravity is not flat, as it is on Earth, but is curved. This curvature is due to the combination of magnetic forces and surface tension forces. The experiment provides valuable insights into the behavior of magnetic liquids in space, which is important for the design of microgravity experiments and the development of new technologies for space exploration.

Free surface reconstruction of opaque liquids in microgravity. Part 2: results of drop tower campaign

Abstract: This paper reports on the results of a drop tower campaign to investigate the free surface reconstruction of opaque liquids in microgravity. The experiment was conducted in a drop tower facility, which provides a microgravity environment for a few seconds. The results show that the free surface of a liquid in microgravity is not flat, as it is on Earth, but is curved. This curvature is due to the combination of magnetic forces and surface tension forces. The experiment provides valuable insights into the behavior of magnetic liquids in space, which is important for the design of microgravity experiments and the development of new technologies for space exploration.

Final results!! COSPAR 2021

AXISYMMETRIC AND LATERAL FREE SURFACE OSCILLATIONS OF FERROFLUIDS IN MICROGRAVITY

Abstract: This paper reports on the final results of a microgravity experiment to investigate the axisymmetric and lateral free surface oscillations of ferrofluids in microgravity. The experiment was conducted on the International Space Station (ISS) during the STS-135 mission. The results show that ferrofluids exhibit unique oscillation behavior in microgravity, which is different from their behavior on Earth. This behavior is due to the combination of magnetic forces and surface tension forces. The experiment provides valuable insights into the behavior of ferrofluids in space, which is important for the design of microgravity experiments and the development of new technologies for space exploration.

3. How has participating in DropTES changed the environment around you? Cont'd (3)

In Feb. 2017 I was elected to be the President of the American University of Madaba (AUM) in Jordan. That month AUM started the Innovation project for its students and for high school students in Jordan at large.





Access to Space for All

Structure of the initiative

HYPERGRAVITY AND MICROGRAVITY

Building capacity for conducting experiments in orbit



Hands-on opportunities in hypergravity and microgravity from ground to orbit



Open source tools bridging hands-on and education components



Educational material for building up experiments

SATELLITE DEVELOPMENT

Building capacity that enables the development, deployment, and operation of satellites



Hands-on opportunities for satellite deployment



Open source tools bridging hands-on and education components



Educational material supporting the whole life-cycle of satellites

SPACE EXPLORATION

Broadening the engagement in space exploration



Hands-on opportunities to engage in space exploration



Open source tools bridging hands-on and education components



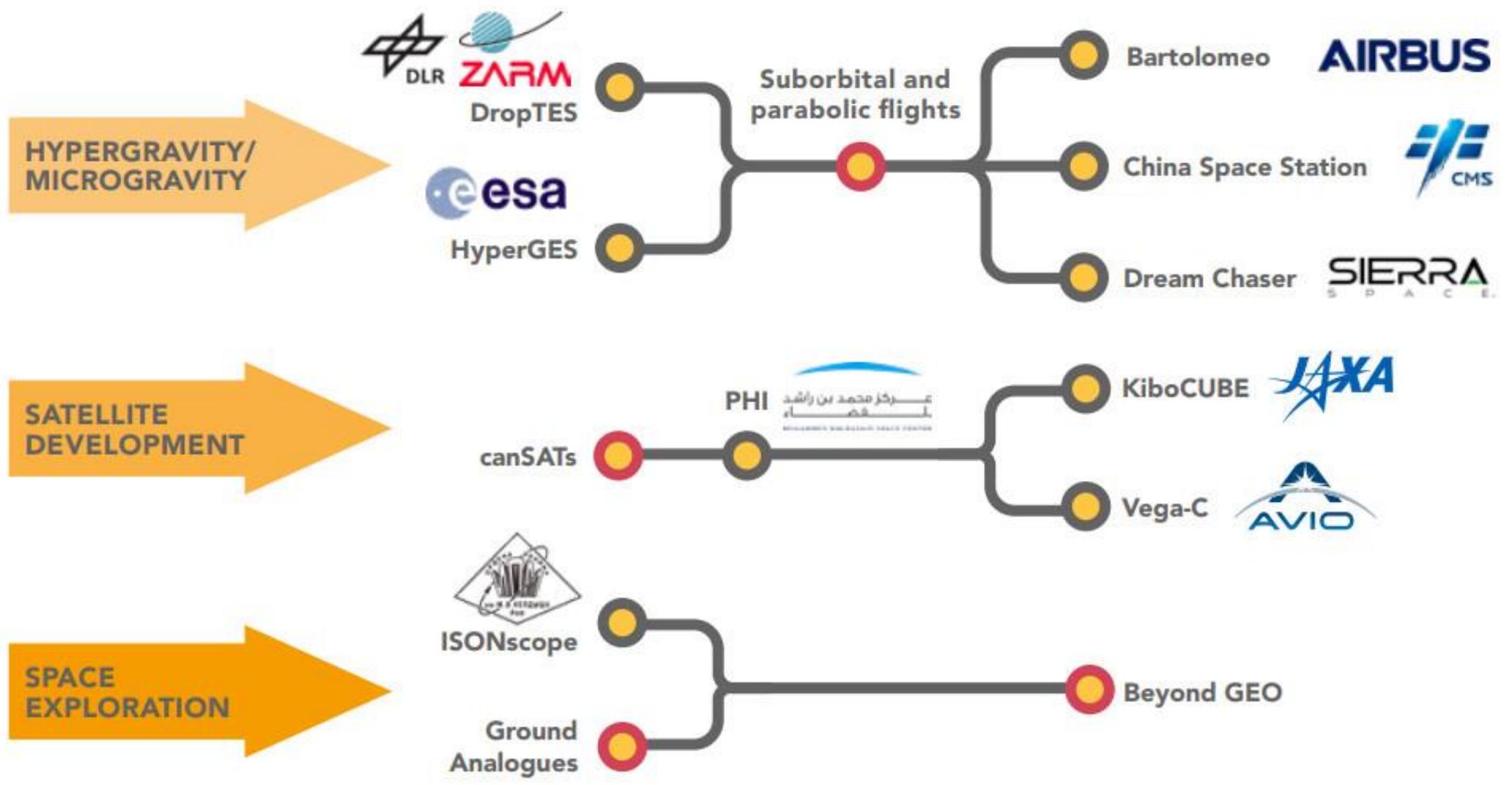
Educational material for space exploration

- 
- A satellite in space, viewed from a low angle, showing its solar panels and various instruments. The satellite is white and metallic, with a complex structure of panels and components. The background is a dark, starry space.
- CubeSats offer a **large variety of applications**
 - CubeSat development can be the first step for a country in **the acquisition of the skills and know-how needed to develop a space programme**
 - CubeSats are **affordable to develop and represent an achievable entry point** to space activities.



Access to Space for All

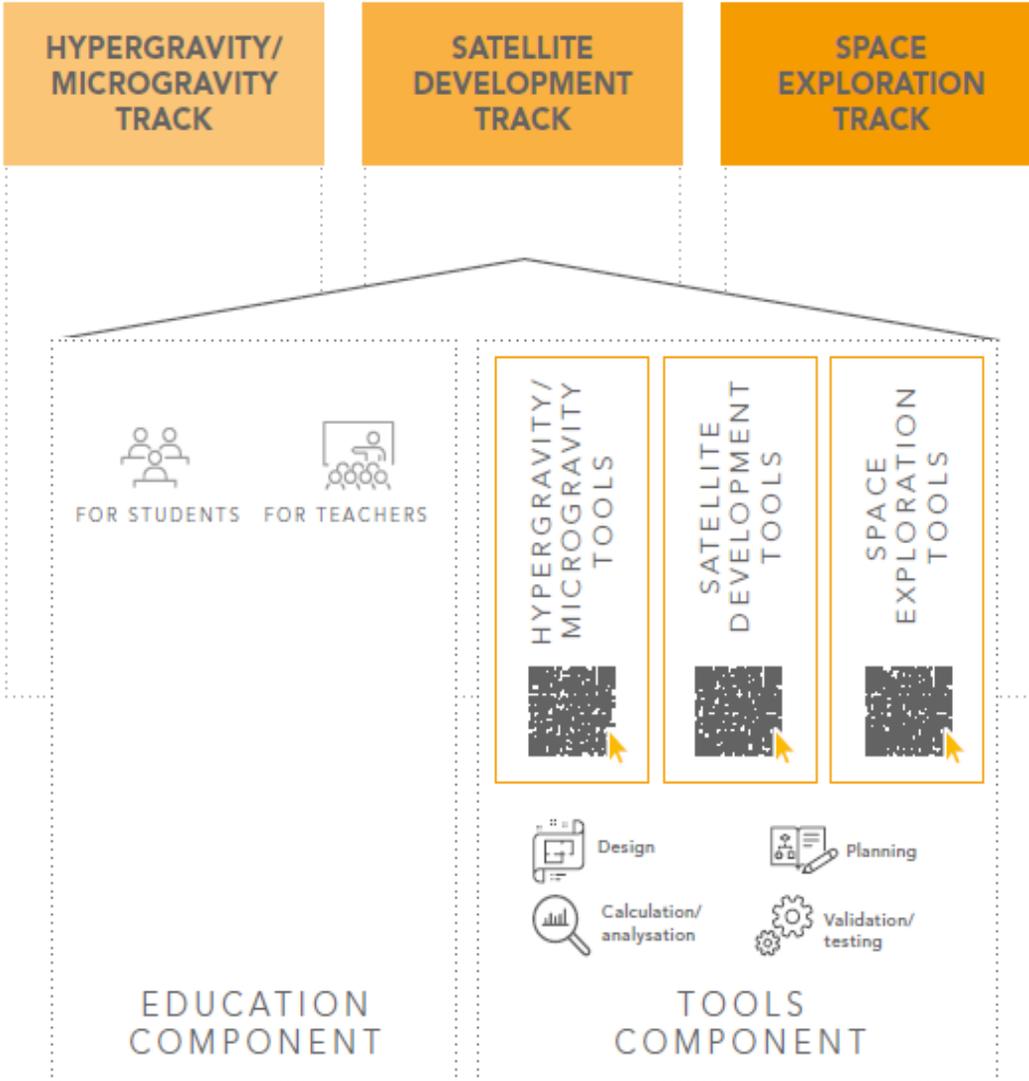
Hands-on Component





Access to Space for All

Tools Component



Tools Component

This list is work in progress. The tools listed are not endorsed by UNOOSA and are provided only for information. The tools are maintained by third parties. Each user bears sole responsibility for their use and the use of their results.

Design Development and Risk Assessment Tools

- **CARA Analysis Tool Suit**
 - *Conjunction Consequence Assessment* is an algorithm for determining the expected amount of debris production in case of collision
 - *Monte Carlo from TCA* is a method of determining the probability of collision
 - *Single Covariance Max Pc* is a method by which the maximum possible probability of collision could be determined for a close approach event for which only one object has position uncertainty information
 - *Two-Dimension Pc* is a method used to characterize and analyze close approach events and determine resultant probabilities of collision as a result of mitigation actions
- **DAS** The Debris Assessment Software
- **DRAMA** Debris Risk Assessment and Mitigation Analysis
- **MASTER** Meteoroid and Space Debris Terrestrial Environment Reference
- **ORDEM** Orbital Debris Engineering Model
- **RABBIT** Risk Avoidance assist tool based on debris collision probability
- **Savi** Satellite constellation visualizer and maker
- **GMAT** Trajectory optimization and design system
- **Trajectory Browser** A tool to find spacecraft trajectories to planets and small-bodies
- **GNU Octave** Scientific programming language featuring powerful mathematics-oriented syntax with built-in 2D and 3D plotting and visualization tool
- **FreeCAD** Computer-aided design software
- **LibreCAD** 2D-focused Computer-aided design software
- **OpenSCAD** Solid 3D Modelling-focused Computer-aided design software

Operations Tools

- **GNU Radio** Signal processing tool to implement software-defined radios and signal-processing systems
- **gr-soapy** A wrapper for GNU Radio
- **gr-satnogs** Telecommunications solution, operating in UHF and S-band. Closely integrated with SatNOGS Network
- **gr-satellites** A GNU Radio out-of-tree module encompassing a collection of telemetry decoders that supports many different Amateur satellites.
- **Qubik** Pocketcube mission for LEOP satellite identification and tracking
- **LibreCube** Software suite for space and earth exploration
- **Polaris** Machine learning for exploring and analyzing telemetry data
- **PW-Sat2** Example of an On Board Computer (OBC)
- **LAR-18740-1** Low Fidelity Space Systems Analysis Tools-Solar Cell/Fuel Cell/Battery Sizing Tool
- **Open MCT** A next-generation mission control framework for visualization of data on desktop and mobile devices
- **Gpredict** Real-time satellite tracking and orbit prediction application
- **Operational Simulator for Small Satellites** A suite of tools to aid in areas such as software development, integration and test, mission operations and training, verification and validation, and software systems check-out
- **COSMOS** Software that provides all the functionality needed to send commands to and receive data from one or more embedded systems
- **Core Flight System** A generic flight software architecture framework used on flagship spacecraft, human spacecraft, cubesats, and Raspberry Pi

End of Life and Deorbiting Tools

- **ORIUNDO** On-ground Risk estimation for UNcontrolled re-entries tool



Access to Space for All

Education Component



Webinars



Conducting R&D in Hyper/microgravity

UNITED NATIONS Office for Outer Space Affairs

Access to Space for All Series of webinars on conducting R&D in Hypergravity/Microgravity

KiboCUBE Academy

2. Introduction to CubeSat Systems

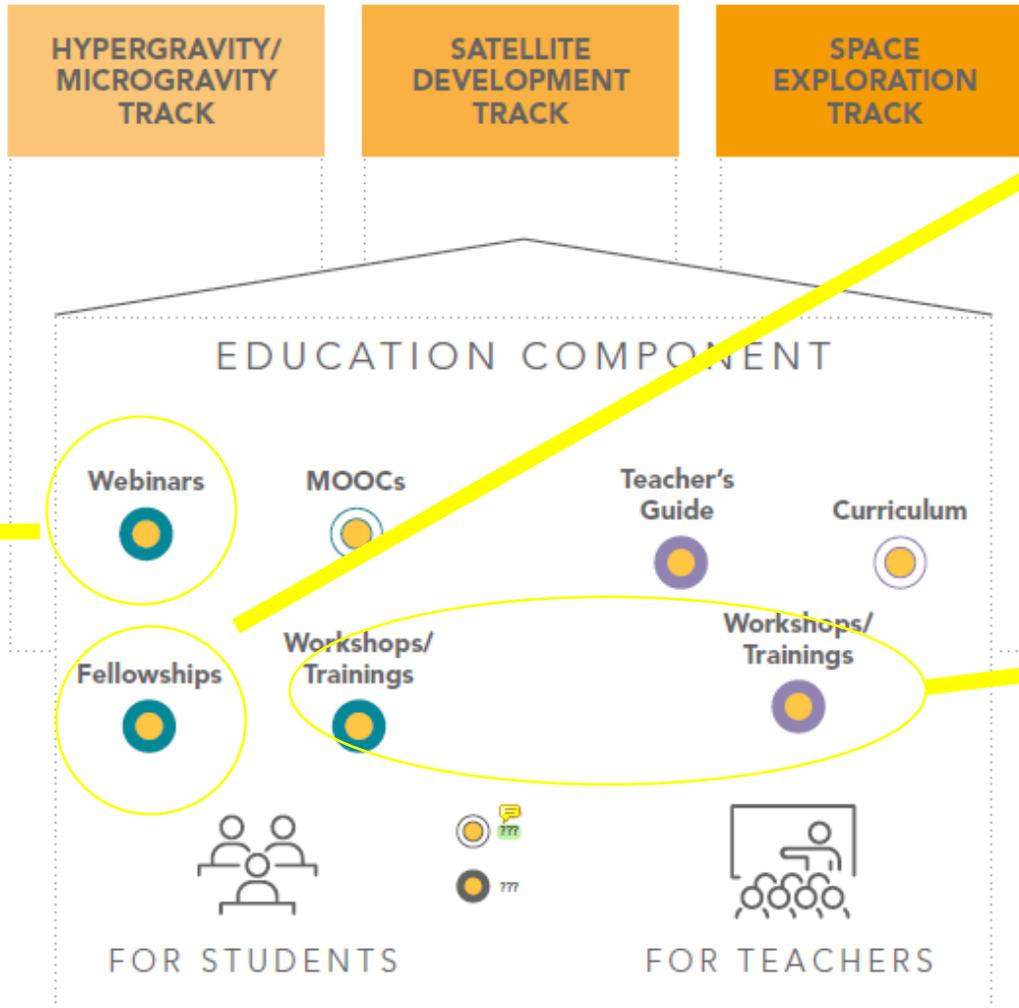
CubeSat Standards

- A 1U CubeSat is a 10 cm cube with a mass of up to 1.33kg.

Some standards are available:

- CubeSat Design Specification rev.13 - California Polytechnic State University (2014/2/20) (<https://www.cubesat.org/>)
- CubeSat System Interface Definition version 1.0 - UNISEC Europe (2017/8/24) (<http://unisec-europe.eu/wordpress/wp-content/uploads/CubeSat-Subsystem-Interface-Standard-V2.0.pdf>)
- JEM* Payload Accommodation Handbook Vol.8 D (Japanese) - JAXA (2020/5/25) (<https://iss.jaxa.jp/kibouser/provide/fj-ssod/fsw-library>) (https://iss.jaxa.jp/kibouser/library/item/jx-esp_8d.pdf)
- JEM Payload Accommodation Handbook Vol.8 C (English) - JAXA (2018/11) (https://iss.jaxa.jp/kibouser/library/item/jx-esp_8c_en.pdf) rev. D (English) is to be released soon.

* Japanese Experiment Module (JEM) = Kibo



Fellowships

Post-graduate Study on Nano-Satellite Technology (PNST)



Workshops UN/IAF Workshop Space Technology for Socio-Economic Benefits





Access to Space for All

Satellite Development Track



Post-graduate Study on Nano-Satellite Technology (PNST)



- Partner: Kyutech (Kyushu Institute of Technology) with the support of the Gov. of Japan (MEXT)
- Established: 2013
- Provides **3 students in the Master's Programme (2 years duration)** and **3 students in the Doctoral Programme (3 years duration)** to enroll in Kyutech's Space Engineering International Course (SEIC) for a **hands-on, extensive research opportunity in nano-satellite systems through the use of the nano-satellite development and testing facilities** available at Kyutech.
- The selected fellows are expected to return to their home countries upon completion of their studies and contribute to their countries using the experience and knowledge gained from the programme.

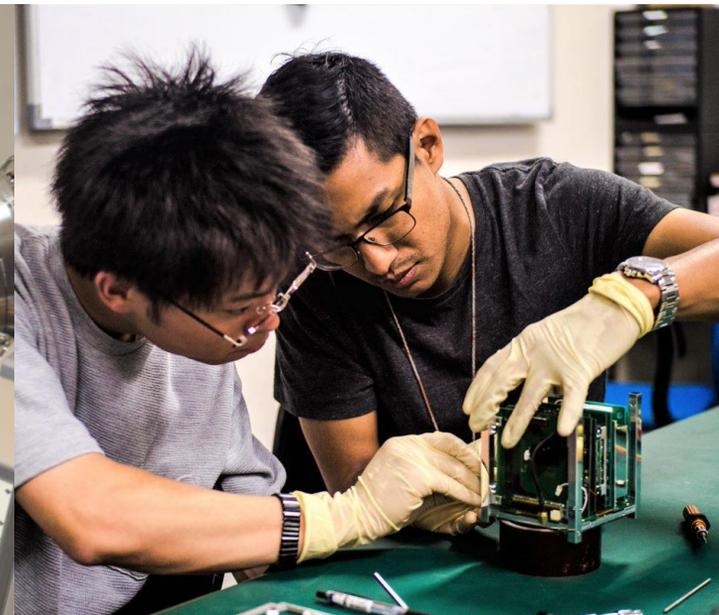
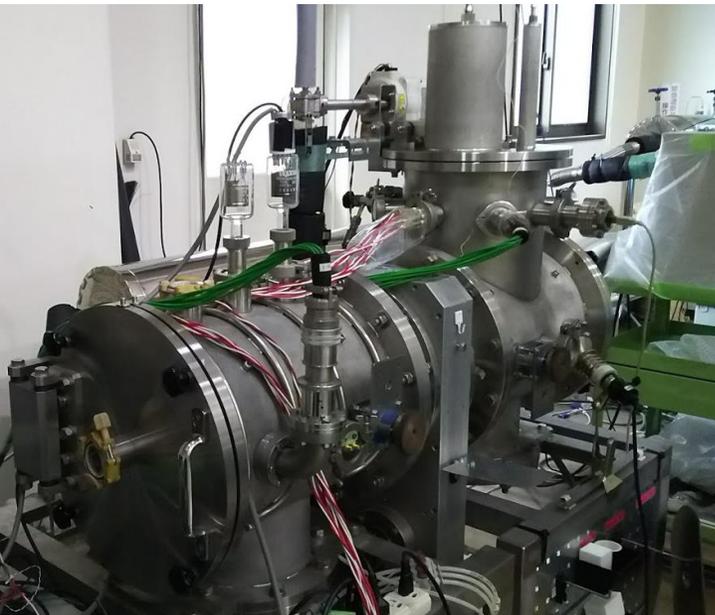


Photo credit: Kyutech



Access to Space for All

Satellite Development Track



Post-graduate Study on Nano-Satellite Technology (PNST)

WHY PNST?

1. Opportunity to study in an international environment at a leading university in the field of small satellites

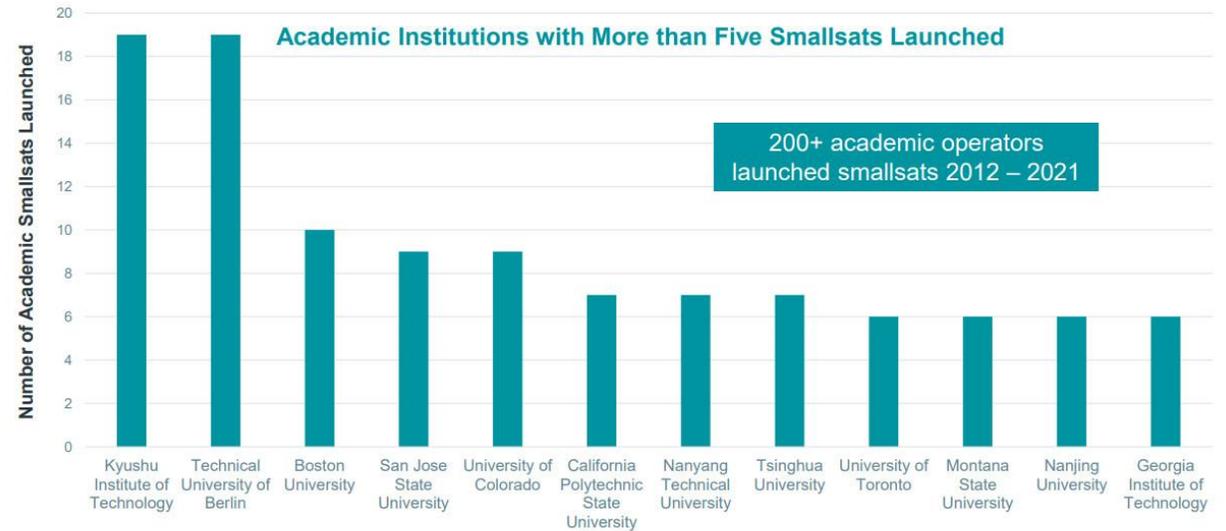
- Hands-on, extensive research opportunity in nano-satellite systems through the use of the nano-satellite development and testing facilities available at Kyutech.
- From 2018, Kyutech was reported by Bryce Space and Technology to have launched the highest number of small satellites among all academic operators.

2. Generous support from Japan

- The selected candidates will each receive a grant under the MEXT scholarship of approximately 144,000 JPY per month for the duration of their fellowship study (2 or 3 years) to cover housing, food, local transportation, and other expenses. Also, according to the route as designated by MEXT, an economy class air ticket between an international airport in the country of his/her nationality and Narita International Airport or Fukuoka International Airport.
- Fees for matriculation, tuition and entrance examinations will be paid by Kyutech.

Number of Academic Smallsats 2012 – 2021, by Institution

Smallsats in Context and Operator/Mission Type Trends



https://brycetek.com/reports/report-documents/Bryce_Smallsats_2022.pdf



Access to Space for All Satellite Development Track

Post-graduate Study on Nano-Satellite Technology (PNST)

Year	Selected Student's Countries of Origin
2022	Egypt, Mexico, Mongolia, South Africa, Turkey, Thailand
2021	Bhutan, Cambodia, Ethiopia, Laos, Trinidad and Tobago, Zimbabwe
2020	Brazil, El Salvador, Indonesia, Nepal, Paraguay, Vietnam
2019	Bhutan, Ethiopia, Laos, Malaysia, Sri Lanka, Trinidad and Tobago
2018	Algeria, Egypt, Nepal, Sudan, Turkey

UNITED NATIONS Office for Outer Space Affairs
How satellite technology has opened new opportunities: From El Salvador to the world
 Interview conducted on 25 August 2021
 Institution: **Kyutech** (Kyushu Institute of Technology)
 Interviewee: Fatima Duran, Master's Student at Kyutech from the Republic of El Salvador

Background:
 The United Nations Office for Outer Space Affairs (UNOOSA), in partnership with the Government of Japan and the Kyutech Institute of Technology (Kyutech) through the UN/Japan Long-term Fellowship Programme Post-graduate study on Satellite Technologies (PNST).

The programme provides 3 masters and doctoral students from developing countries the opportunity to enroll in the Kyutech Space Engineering International Course (SEIC) to study nano-satellite systems. The chosen candidates receive a grant from the Ministry of Education, Culture, Sports, Science and Technology of Japan for the duration of their fellowship, covering housing, food, local transportation, and other expenses. In addition, each candidate is provided an economy class air ticket between an international airport in the country of his/her nationality and Narita or Fukuoka International Airport. Fees for matriculation, tuition and entrance examination are covered by Kyutech.

Fatima is a first-year master student in the programme since fall of the PNST fellowship, she obtained her bachelor's degree in aeronautics from Pusan National University and an associate degree in aerodynamics from the Space Generation Advisory Council (SGAC) of El Salvador of the El Salvador Aerospace Institute.

In this interview, we spoke with her about her experience at Kyutech.

Interviewee: Prof. Meegu Cho, Director of the Space Engineering International Course, Kyutech Institute of Technology (Kyutech)
Abhas Maskey, 2020 graduate of the PNST fellowship, Founder of Antarcticya Pratishthan Nepal
 Date: Interview conducted with Kyutech on 28 June 2022 and with Abhas Maskey on 13 July 2022

Background:
 The United Nations/Japan Long-term Study on Nano-Satellite Technologies (PNST) is offered by the United Nations Office for Outer Space Affairs (UNOOSA) and the Government of Japan, through the support of the Ministry of Education, Culture, Sports, Science and Technology (MEXT), in cooperation with the Kyutech Institute of Technology (Kyutech). The Fellowship programme provides extensive hands-on opportunities in nano-satellite development and the use of the nano-satellite systems through PNST facilities available at Kyutech and Master's Program (2 years duration) and up to three students in the Doctoral Program (3 years duration). The selected students will enroll in the Space Engineering International Course (SEIC) and the Kyutech Post-graduate Study on Satellite Technologies (PNST) 5 Year Beneficiaries Data UNOOSA.

Thanks to the generous contributions and a monthly grant to cover living costs are provided to the selected students, along with the collaboration that started in 2012. UNOOSA and Kyutech have selected more than 50 students from various developing countries. Many have returned to their countries to promote and develop space activities locally within their countries/regions.

The PNST fellowship has been awarded the Japan Ministry of Foreign Affairs Award in 2017 for its contribution to human resource development in the global space sector.

Selected Student's Countries of Origin:
 2022: Egypt, Mexico, Mongolia, South Africa, Turkey, Thailand
 2021: Bhutan, Cambodia, Ethiopia, Laos, Trinidad and Tobago, Zimbabwe
 2020: Brazil, El Salvador, Indonesia, Nepal, Paraguay, Vietnam
 2019: Bhutan, Ethiopia, Laos, Malaysia, Sri Lanka, Trinidad and Tobago
 2018: Algeria, Egypt, Nepal, Sudan, Turkey

PNST Past 5 Year Beneficiaries Data UNOOSA

Students from different countries working together (Kyutech)

www.unoosa.org

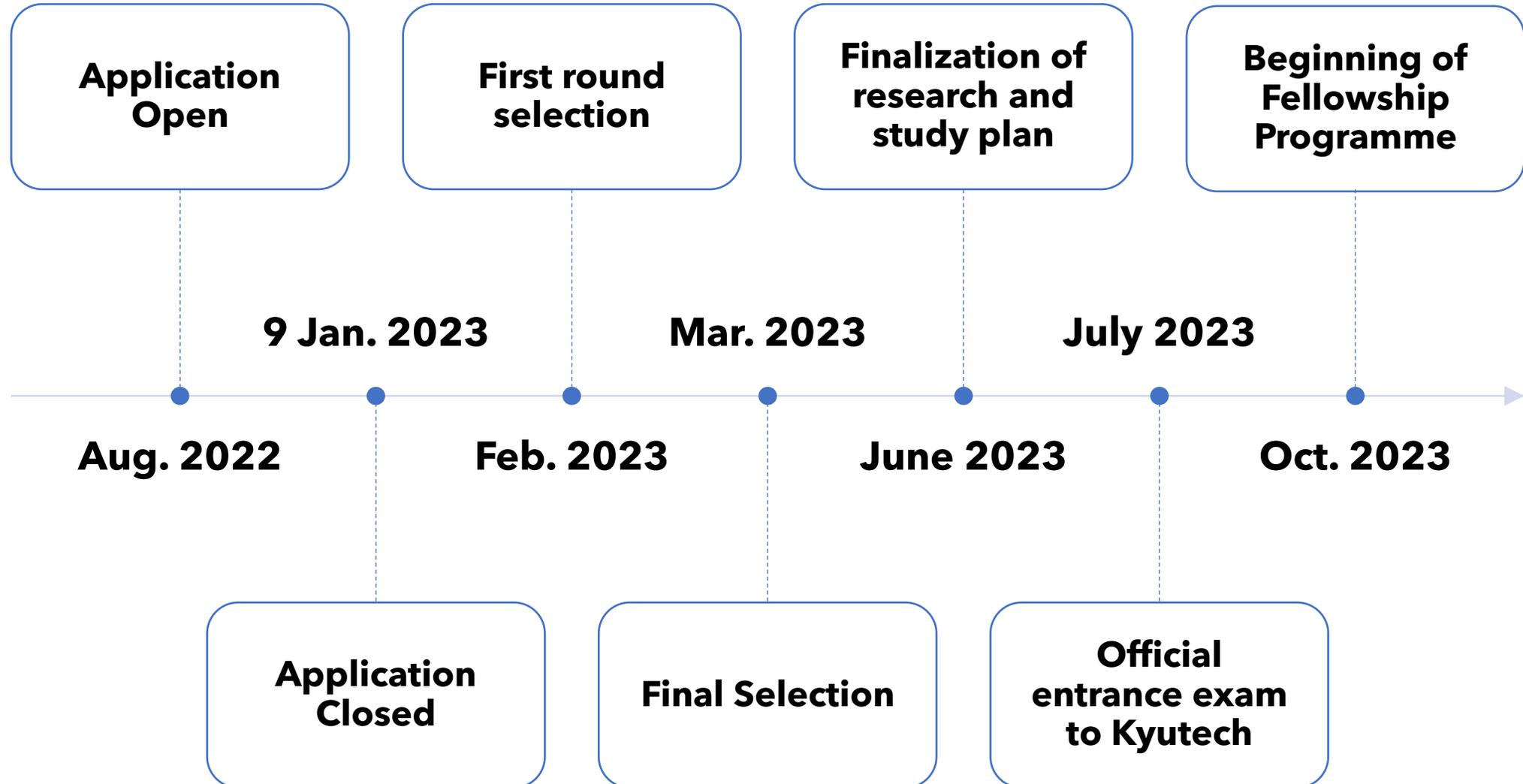




Access to Space for All

Satellite Development Track

Schedule





Access to Space for All Satellite Development Track



Post-graduate Study on Nano-Satellite Technology (PNST)



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- Our Work
- Space4SDGs
- Information for...
- Events
- Space Object Register
- Documents
- COPUOS 2022

Our Work > Access to Space for All > Opportunities > Satellite Development Track

Post-graduate study on Nano-Satellite Technologies (PNST) Rounds

OPEN FOR APPLICATION (2023 Round)

updated on 5 October 2022

NEW! PNST 2023 round webinar will be held on Thursday 3 November 1pm CET. Register from [here](#).

The United Nations Office for Outer Space Affairs and the Government of Japan in cooperation with the Kyushu Institute of Technology (Kyutech) have established a United Nations/Japan Long-term Fellowship Programme on Nano-Satellite Technologies for nationals of developing countries or non-space-faring nations. The Programme will provide extensive research opportunities in nano-satellite systems through the use of the [nano-satellite development and testing facilities](#) available at Kyutech.

Every year this "Post-graduate study on Nano-Satellite Technologies (PNST)" Fellowship Programme will accept up to three students in the Master's Programme (2 years duration) and up to three students in the Doctoral Programme (3 years duration). Successful participants will be awarded a master or doctoral degree after successful thesis defence. The successful candidates will enroll in the Space Engineering International Course (SEIC) after passing an official entrance examination by the Graduate School of Engineering, Kyushu Institute of Technology.

The selected candidates will each receive a grant under Japanese government (Ministry of Education, Culture, Sports, Science and Technology: MEXT) scholarship (Research Students) of approximately 144,000 JPY per month for the duration of their fellowship study (2 or 3 years) to cover housing, food, local transportation, and other expenses. Each candidate will be provided, according to his/her itinerary and route as designated by MEXT, an economy class air ticket between an international airport in the country of his/her nationality and an international airport in Japan used on the normal route to the accepting university. Fees for matriculation, tuition and entrance examinations will be paid by Kyutech.

The purpose of this fellowship is to help non-space-faring nations join the community of space faring nations. Consequently, if you are selected as a PNST Fellow through the aforementioned process and you earn your advanced degree at Kyutech, you have an immense moral obligation to return to your home country and contribute to it. This is the central expectation of both UNOOSA and Kyutech.

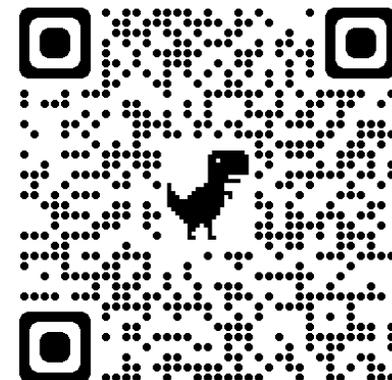
Applications for the Fellowship Programme will be accepted until 9 January 2023 (Monday, 23:00 JST). If not fully completed at the time of the deadline, the application will be deemed to be not qualifying.

- Our Work
- Secretariat of COPUOS
- Programme on Space Applications
- UN-SPIDER
- International Committee on GNSS
- UN-Space
- UNISPACE+50
- Space Law
- Benefits of Space
- Space4Health
- Access to Space for All
- For Member States
- Partnerships
- Opportunities
- Hypergravity/Microgravity Track
- Satellite Development Track
- Space Exploration Track
- Awardees
- Acknowledgement
- Space for Persons with Disabilities
- Space4Youth
- Space4Water
- Space4Women

All the information can be found on:
https://www.unoosa.org/oosa/en/ourwork/access2space4all/PNST/PNST_Rounds.html



Please read this page carefully





Access to Space for All

Satellite Development Track



Post-graduate Study on Nano-Satellite Technology (PNST)



▼ Application Requirements

Applicants should:

- Be nationals of developing countries or non-space-faring nations (countries without an established substantial capability to develop space technology/launch space objects);
- Be duly nominated by their institutions;
- Born on or after 2 April 1988;
- Should have the academic and professional background required by the specific fellowship programme. Candidates seeking a Master degree are expected to have completed studies ending with a Bachelor Degree or equivalent in engineering-related subjects. Candidates seeking a Doctorate degree are expected to have completed studies ending with a Master Degree or equivalent in engineering-related subjects. Degrees in different technological fields can be considered by the Selection Committee; and
- Be able to make professional use of the experience gained in the fellowship programme.

The Office for Outer Space Affairs is committed to achieving 50/50 gender balance in its programme and ensuring a balanced representation from different perspectives. This programme intends to select 3 male and 3 female students for the fellowship.

▼ Information Note and Application Documents

Before submitting the completed application documents through the online upload-form, please first complete the electronic registration form, using the link below:

- [Registration for the Post-graduate study on Nano-Satellite Technologies \(PNST\)](#)

After registering for PNST you will receive a confirmation email with the web address where you will download the .doc-versions of the application forms.

• Application Documents:

- [Information Note \(.pdf\)](#)
- [Terms of Participation \(.pdf\)](#)
- [Nomination Form \(.pdf\)](#)
- [Application Form \(.pdf\)](#)
- [Referee Report Form \(.pdf\)](#)
- [Academic Background \(.pdf\)](#)
- [Academic Background Sample \(.pdf\)](#)
- [Application for Japanese Government \(Ministry of Education, Culture, Sports, Science and Technology: MEXT\) Scholarship \(.pdf\)](#)
- [Field of Study and Research Plan \(.pdf\)](#)
- [Checklist \(.pdf\)](#)

▼ Application Submission Procedure

- The fully completed application form and other required documents except the referee report forms shall be submitted in electronic format (.doc or .pdf or.xls) at the Web address that is in the confirmation e-mail you will receive after registering above, by no later than 9 January 2023 (Monday, 23:00 JST). If not fully completed at the time of the deadline, the application will be deemed to be not qualifying.
- Note: For file a name, do not use any non-English characters. Moreover, each character must be a one-byte type of character. As well, do not use spaces in your file names as the file server will not handle such data correctly. Use "_" (under bar) or "-" (hyphen) instead, e.g. "01_Tom_Smith_2022.12.24".
- The Referee report forms should be sent by email to the Post-graduate study on Nano-Satellite Technologies (PNST) (pnst[at]space-kyutech.net) email address by the referees themselves by no later than 9 January 2023 (Monday, 23:00 JST).

▼ Timeline of the Selection Process

The timeline anticipated for the selection process of the Fellowship Programme is as follows:

- From August 2022: Dissemination of information on the Fellowship Programme to potential candidates worldwide and application period.
- 9 January 2023(Monday, 23:00 JST): Submission deadline - all application documents must be received by PNST
- Late January 2023: After the first round of selection based on the application documents, the remaining candidates will be notified regarding interviews about two weeks after the submission deadline.
- February 2023: The first interview will be held in February 2023. The second interview (if necessary) will be held after the first interview. The interviews will be conducted remotely. All the applicants shall make themselves available for these days. The outcome of the remote interviews is the selection of six persons who will be offered PNST scholarships.
- March 2023: After the interviews, all PNST applicants will be informed about the outcome of their applications to PNST. We will contact you. Please do not contact us.
- February-June 2023: Discussion and finalization of research and study plan between the successful candidates and their supervisors.
- Late February- early March 2023: Selected candidates must send all the required documents including original certificates of graduation, original transcripts, and original English test score with explanation of transcripts to Kyutech using a reliable express mailing service. If any documents are written in any language other than English, official certified translations are also required. For the details of the required documents, please refer to the Checklist.
- July 2023: Official entrance exam to Kyutech. Formal admission and administration to obtain student visa.
- August 2023: Travel arrangements for the candidates to Japan.
- September 2023: Arrival in Japan and finding accommodation. Official enrollment procedures at Kyutech.
- October 2023: Beginning of the Fellowship Programme at Kyutech.

For any further questions regarding the PNST, please contact us.



Access to Space for All

Satellite Development Track



Post-graduate Study on Nano-Satellite Technology (PNST)



▼ Frequently Asked Questions (FAQ)

Q: I am expected to graduate sometime in 2023. Am I still eligible to apply for the PNST?

A: We accept applications as long as the applicant is expected to have the degree by September 2023. However, the applicant will need to submit a proof of the expected degree conferral date by the submission deadline; 9 January 2023 (23:00 JST), and if selected, will also have to submit the diploma received before the Fellowship Programme starts on 1 October 2023.

Q: As the topic of my Doctoral or Master thesis, am I restricted to choose something related to nano-satellite?

A: Space technology is made of many disciplines. You do not have to restrict yourself to choosing a topic too narrowly such as "nano-satellite guidance", "nano-satellite communications", etc. As long as the topic is space related, it has a possibility of being applied to nano-satellite. The important thing is that the thesis topic has suitable academic meaning as a Doctoral or Master thesis. Your research topic will be determined via matching between your research interest and the academic disciplines that Kyutech faculty members can offer. We will try to find a supervisor who is able to guide you in the area of your research interest.

Q: Where can I find more information about the research work I could conduct at Kyutech?

A: Please visit http://kyutech-cent.net/seic/seic_web.html which provides information about the research programmes at Kyutech, on the subjects of the Space Engineering International Course and on the faculty members and their recent publications.

You can also find the list of professors who belong to the Department of Space Systems Engineering at <https://www.space.tobata.kyutech.ac.jp/lab/list/>. Although the page is in Japanese, you can go to the webpage of each laboratory from the links listed in the page.

Q: After a survey of the different researchers at Kyutech I am interested in working with Dr. XXX. My question is if I can apply to the United Nations/Japan Long-term Fellowship Programme on Nano-Satellite Technologies even though I do not have any agreement with any researcher yet?

A: Yes, of course you can apply! You do not need any pre-agreement with a Kyutech faculty before you apply. After the first round of down-selection, we will work on matching the remaining applicants to a professor at Kyutech. We will consider your interest in working with a particular professor if you pass this first round. Please first register for the PNST programme 2023 and then submit your application package.

Q: Who should sign the "Nomination Form"?

A: The nomination form shall be signed by the head of the nominating organization. If you are a student right now, the person who signs the form has to be the Dean or higher ranking officer. If you are employed by a company, the person who signs the form has to be the president of your company. If you are neither a student nor employed, please ask the Dean or higher ranking office of the school you attended most recently.

Q: Is it sufficient for the "Referees Report Form" to be signed by the referee or is the seal of the referee's organization also required?

A: The referee's signature is sufficient, however, for the "Nomination Form" the official seal of the nominating organization is required.

Q: Is it necessary to send the hardcopies of the application forms to PNST?

A: At the first stage in the application process this is not necessary. You should just upload and submit the softcopies of required documents through the specified website. However, please retain all the original certificates; such as Certificate of graduation (Diplomas) or expectation of graduation, grade certificates (transcripts) and those official translations into English, and official score report of English test (such as TOEIC, TOEFL, etc.), and Nomination Form signed by the head of the nominating agency/institution. The short-listed candidates will be contacted and asked to send those original documents by express mails (such as DHL, FedEx) directly to Kyutech in the beginning of March.

Q: Can I send additional certificates to support my application?

A: Yes, you can if you think that it will strengthen your application.

Q: I will apply for the Master's Program. Do I have to fill the STATEMENT OF PURPOSE in the PNST 2023_Application Form?

A: Yes, please complete this field if you apply for Master's Program as well as if you apply for Doctoral Program.

Q: As an applicant do I need any help from my nominating agency during the application process? How is the nominating agency going to know about the progress in the selection process?

A: It is up to the applicant and the nominating agency how they wish to relate to each other during the application process. For example, some successful applicants have retained employment with their respective nominating agency, retained the possibility to return to their previous employer, or had coordinated the topic of their theses work with their nominating agency. This is handled differently in each case and so it is up to the applicant and the nominating agency how you would like to handle this. It is also up to the applicant to keep the nominating agency informed about the progress in the application and selection process.

Q: Do I need preparation for an examination to Kyutech?

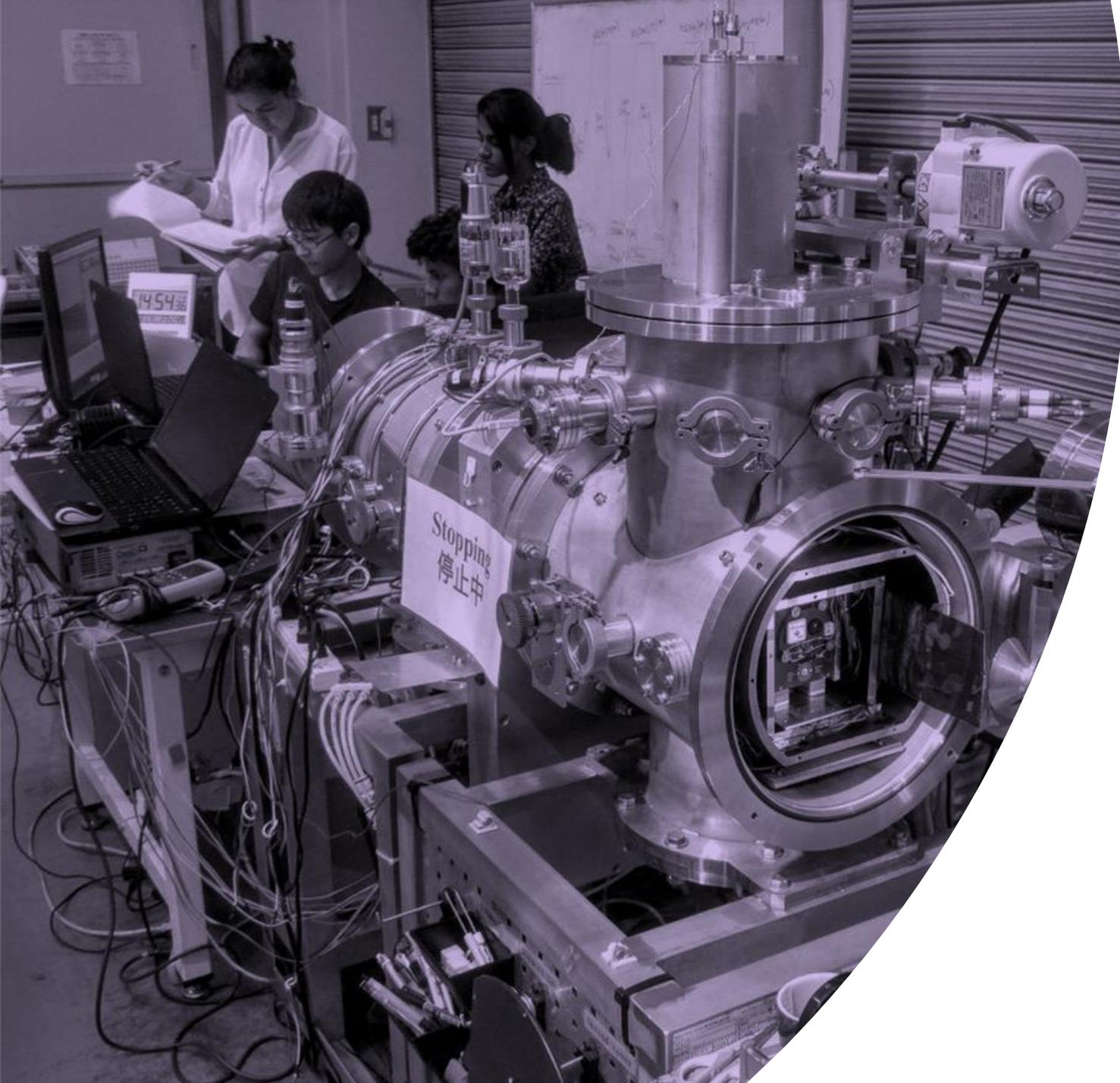
A: You need to register online for admission application in May, and then take an interview as an official entrance examination for Graduate School of Engineering, Kyutech in July. The details for registration will be provided by April from Kyutech. Doctoral Program candidates may be exempted from an interview, whereas Master's Program candidates must undergo an interview. However, as long as the candidates are selected as final PNST candidates, it is unlikely to fail the interview.

Q: Is TOEFL or another English proficiency certification required? If so, what score is required and where should the exam results be sent?

A: Basically, it is advised all the candidates should submit an official English test score taken within two years; such as TOEIC, TOEFL, etc., and the score level should be CEFR (Common European Framework of Reference for Languages) B2 or higher. Please check what tests are approved by CEFR at Wikipedia: https://en.wikipedia.org/wiki/Common_European_Framework_of_Reference_for_Languages

The submission of the test score is not mandatory if your university (Bachelor for Master candidates, Master for Doctoral candidates) education was conducted entirely in English, and you can submit the evidence of that as a certificate signed by Dean or an official of higher rank.

Please refer to the checklist No.08 for the details about certification of English proficiency.



Make sure to
apply!
Deadline:
9 January 2023

✉ Please send questions to
unoosa-access-to-space@un.org