United Nations/Japan
Long-term Fellowship Programme
Post-graduate Study on
Nano-Satellite Technologies (PNST)
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.
Hands-on Capacity from A-Z
Responsible & Sustainable Way

Provides cutting edge skills for jobs and other opportunities

Fosters international cooperation

Social Impact: To your country, region and young generations
Access to Space for All 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

- 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

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

A Potentially New Social-Economic Pillar:
- Space offers numerous possibilities for Mauritius. Data analytics, opportunities for R&D, business opportunities, intergovernmental collaborations.

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 Initiative

Space is relevant to the SDGs!

To learn more about the SDGs go to [https://sdgs.un.org/goals](https://sdgs.un.org/goals)
UNOOSA SDGs page
Access to Space for All Initiative

4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

Target 4.4
By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship

8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

Target 8.2
Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors

Target 8.3
Promote development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalization and growth of micro-, small- and medium-sized enterprises, including through access to financial services

9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

Target 9.1
Develop quality, reliable, sustainable and resilient infrastructure, including regional and trans-border infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all

Target 9.5
Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1 million people and public and private research and development spending
Access to Space for All Initiative

3 GOOD HEALTH AND WELL-BEING

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
Access to Space for All Initiative

HANDS-ON COMPONENT

TOOLS COMPONENT

EDUCATION COMPONENT
Access to Space for All Initiative

HYPERGRAVITY/MICROGRAVITY TRACK
- Drop-TES
- ESA
- HyperGEX

SATELLITE DEVELOPMENT TRACK
- CNES
- JAXA

EXPLORATION TRACK
- Beyond GEO
- Ground Analogues
- HyperGEX
- EONcore

Opportunities are OPEN!
KiboCUBE: 31 Dec 2021
HyperGES: 28 Feb 2022

Identified gaps
Access to Space for All Initiative

MOOCs
Webinars
Curriculum
Workshops/Training
Teacher’s Guides
Fellowships

Design
Planning
Calculation/Analyzation
Validation/Testing

Fellowship is OPEN!
Post-graduate study on Nano Satellite Technology (PNST) : 10 Jan 2022
What is the Post-graduage study on Nano-Satellite Technologies (PNST) fellowship?

- A fellowship programme between the United Nations Office for Outer Space Affairs (UNOOSA) and Kyushu Institute of Technology (Kyutech) which started from 2013, for nationals of developing countries or non-space faring nations. This programme is supported by the Ministry of Education, Culture, Sports, Science and Technology: MEXT of Japan.
- Provides opportunities for 3 students in the Master’s Programme (2 years duration) and 3 students in the Doctoral Programme (3 years duration) to enrol in Kyutech’s Space Engineering International Course (SEIC).
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.
   In 2018, 2019 and 2020, Kyutech was reported by Bryce Space and Technology to have had 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.
Where to begin…

- All documents/information can be found at: https://www.unoosa.org/oosa/en/ourwork/psa/bsti/fellowships.html

Read all documents/information on website carefully

- Read interview article with current students in the programme

**Requirements for Participation**

- 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 1987;
- 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 (4 year university degree) in engineering-related subjects. Candidates seeking a Doctorate degree are expected to have completed studies ending with a Master Degree or equivalent (5 years university degree) in engineering-related subjects. Degrees in different technological fields can be considered by the Doctor Commission; 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.
Thank you!

For inquires:
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