



Collaboration between



**National University of Sciences & Technology (NUST),
Pakistan**

and



Japan



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1. Introduction

National University of Sciences and Technology (NUST) is a comprehensive university comprising 19 constituent institutions spread across all provinces of Pakistan. NUST is a top Pakistani university, as per Quacquarelli Symonds (QS) UK in both world as well as regional (Asian) Rankings. As per the latest QS ranking, NUST is 358th Globally, 76th in Asian University Rankings and 41st among young university ranking “Top 50 under 50”. NUST stands as 214th globally and 1st in Pakistan as Engineering & Technology University with all engineering programs ratified under the Washington Accord (WA). We have faculties ranging from Engineering to Business to Arts and are present in all 4 provinces of Pakistan. Following NUST programs are ranked by QS UK at the global level; -

- Engineering programs in Electrical and Electronics.
- Computer Science and Information Systems.
- Mechanical and Aeronautical Manufacturing.
- Chemical Engineering.
- Physics and Astronomy.
- Mathematics.
- Chemistry.
- Business and Management.
- Applied Biosciences.



2. Areas of Collaboration

2.1 Recruitment of Human Resource from NUST

About 30% of the NUST graduates are from Information, Communication Technology or related disciplines. Having strong market-ready traits, NUST graduates are considered as premium choice for recruitment by national and international recruiting partners / companies. The process of recruitment from NUST has been simplified through NUST Placement Portal (npo.nust.edu.pk), which can easily be accessed by all Japanese companies based in Japan and Pakistan or any other country.

2.1.1 Joint Webinars, Seminars, Training Sessions and Recruitment Drives

Japanese companies already operating in Pakistan as well as Japan based companies can conduct / arrange joint webinar, seminar, sessions and recruitment drives. Moreover, companies can also organize training and mock interview sessions to help prepare NUST students for the recruitment process of Japanese firms.

2.2 NUST International Internship Program (NIPIS)

NUST conducts its 4 x weeks Internship Program for the International students under the name of NUST Internship Program for International Students (NIPIS) to promote high-quality internship experience, show case Pakistani culture and give a unique educative experience to the international students. The internship program is offered during summers (June / July). The registrations are opened every year in January through online portal at: nipis.nust.edu.pk. The applications are short-listed based on the matching fields of education and area of research. The accepted applicants are then given visa facilitation, on-campus accommodation, local transport and stipend. However, the cost of air travel is borne by the applicants. This program can be offered to Japanese universities on bilateral basis, offering the same facilitation and learning experience, on reciprocal basis.



2.3 Japanese Companies / Investors for Startups and incubatee Companies at NSTP

NUST to collaborate with Japanese Companies / Investors to explore mutual interests for investment in already established start-up and incubatee companies based at National Science & Technology Park. This would help build ties between two countries in terms of promoting innovation and entrepreneurship. For information regarding currently hosted start-ups and companies, the profiles can be viewed at: <https://nstp.pk/tenants-directory/>

2.4 Japanese Companies to setup their offices at NSTP

National Science & Technology Park (NSTP) is the first fully integrated science and technology park (STP) of the country; the initiative is aimed at kindling the knowledge economy of Pakistan by stimulating and nurturing innovation-led growth of hi-tech entities. With over PKR 8 Billion being invested into the park, NSTP is an innovation powerhouse for businesses. NSTP is the new national tech-pad where entrepreneurs and multinationals come together to discover, ideate, create, collaborate and break new grounds. NSTP is thus home to an assortment of tech start-ups, established R&D companies and research branches of renowned national and international industry leaders. Catering to a multispectral cluster, drawing on the nation's and the region's growth potential and market needs, 8 optimised high-tech themes have been selected for the NSTP in the first phase, to maximise technological, economic and societal impact. These themes include: AgriTech, AutoTech, DefTech, EdTech, EnergyTech, FinTech, HealthTech and SmartTech. Japanese Companies / investor groups can be provided opportunities of various levels to setup companies / offices at NSTP and enjoy the status of special economic zone (SEZ) with a tax exemption for up to 10 years (depending upon the nature of the business). Further information can be viewed at: nstp.pk



2.5 Collaboration with Japanese Companies for Commercialization of Research Projects

NUST - an SDG engaged University that has aligned its core functions with the UN SDGs and with its mission to transform itself into a comprehensive research-led university, it has maintained focus on technology, innovation and entrepreneurship. For this, we have a directorate of Innovation & Commercialization, which works with a mandate to encapsulate NUST's research and intellectual property opportunities at the earliest stage, and to translate these benefits to the industry. More than 200+ Industry partners including SMEs, multinationals, large national firms, public sector and non-profit organisations, work with our constituent offices on mutually beneficial initiatives. Our partners gain access to the university's state-of-the-art research infrastructure, innovative research, world-class researchers, and brilliant young students. Japanese industry / companies operating in Pakistan can benefit (with in Pakistan) through funded research projects at NUST, to provide meaningful research-based industrial solutions. NUST is keen to connect with Japanese Industry in Pakistan as well as in Japan for promotion of commercialization focused joint research and development as well as conduct of annual events between NUST and Japanese industries. In addition, NUST to participate at relevant Expos are held in Japan for showcasing of research and commercial products. NUST may also invite Japanese Industry through for showcasing of Japanese products at NUST events like AI TechVerse Startup Challenge and Smart Cities AI Expo. Particular areas of focus may be Automotive Industry, Artificial Intelligence, Robotics, Material Sciences and other fields of Engineering and Business Administration.

2.6 Collaborative Research between Universities

Through joint research NUST can collaborate with Japanese universities to produce various joint research publications and products. To support the collaborative research and technical advancement, various Japanese and Pakistani funding resources can be explored.



2.7 Faculty & Students' Exchange Program

NUST has developed partnerships with 184 institutions/organizations in 43 countries including student exchange programs (semester exchange) and faculty exchange programs. On similar lines learning opportunities can be explored between Japanese universities and NUST. These opportunities can be shared via NUST International Office (NIO). For further details, the NUST team can be contacted at: dqa@nust.edu.pk.

2.8 Scholarships for the Masters and PhD Programs

NUST desires to enhance its collaborations with Japanese universities / institutions to avail scholarships for faculty and students. These collaborations will not only add to the knowledge-economy of both the countries but will also help Pakistani students in understanding Japanese culture and values. The faculty scholarships would lead to knowledge sharing and exposure about the research being conducted in Japanese institutions and vice versa. NUST is keen to develop mutually beneficial linkages with Japanese universities and research institutions.

2.8.1 International Students at NUST

NUST encourages self and state sponsored international students to study at NUST. NUST also offers placement in Master's and PhD programmes, to students graduating from Japanese universities. NUST provides on-campus accommodation to all international students. Further information for international students is given at the following links:

For Undergraduate Programmes:

<http://nust.edu.pk/admissions/undergraduates/international-students/> For Masters Programmes:

<http://nust.edu.pk/admissions/phd/international-students/>

For PhD Programmes:

<http://www.nust.edu.pk/admissions/phd/international-students/>



Note: It may be important to consider following while selecting the academic collaborations:

- (a) Pakistani candidates prefer joining programmes taught in English.
- (b) Compatibility of academic programs is important for exchange of students.

2.8.2 Japanese MEXT scholarships

A number of NUST students desire to study in Japan through MEXT Scholarship, therefore, NUST is looking forward to connect with MEXT program team, to explore areas of mutual interest.