

Master Degree Scholarships (International Program)

Thailand Advanced Institute of Science and Technology
and Tokyo Institute of Technology
(TAIST-Tokyo Tech)

สาขาที่เปิดรับสมัคร (Programs Availabilities)

1. วิศวกรรมยานยนต์ (Automotive Engineering : AE)
2. เทคโนโลยีสารสนเทศและการสื่อสารเพื่อระบบสมองกลฝังตัว
(Information and Communication Technology for Embedded Systems : ICTES)
3. วิศวกรรมสิ่งแวดล้อมขั้นสูงเพื่อความยั่งยืน
(Advanced and Sustainable Environmental Engineering : EnvE.)

กำหนดการ (Schedule)

- Application period** : Now – 5 March 2012
English Test : 8 March 2012 (Time 09:00 – 10:30 am.)
Interview Date : 8 March 2012 (Time 11:00 am. onwards)
Announcement : 16 March 2012 (via website)

Eligibility of Applicants

- Applicants must hold a Bachelor's degree of either Engineering or Science in an appropriate discipline (Automotive, Mechanical, Electrical, Metallurgical, Control, Electronic, Chemistry, Physics, Mathematics, Materials, Geology, Environmental, Industrial, Agro-Industrial, Forestry, Production Forestry, Computer etc.) or to be awarded the Bachelor's degree before starting the Master's degree program.
- Applicants must have the grade point average (GPA) of at least 2.75 or 2 years experience in relevant research and work as specified by the Executive Committee.

Further information

Academic information :

AE program : Dr.Preechar (kkpreech@kmitl.ac.th) ٱุ้ฃ AE curriculum
ICTES program : Dr.Thanaruk (ictes@siit.tu.ac.th) ٱุ้ฃ ICTES curriculum
EnvE program: Dr.Thongchai (fengtcs@ku.ac.th) ٱุ้ฃ EnvE curriculum

General and Application information :

please contact 662-5648016-8 Ms.Chayanan, Ms.Krittaya, Ms.Samanan

Or visit website http://www.nstda.or.th/taist_tokyo_tech/

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**Thailand Advanced Institute of Science and Technology and
Tokyo Institute of Technology
(TAIST-Tokyo Tech)**

Implementation Guidelines

for

TAIST-Toyo Tech Scholarship 2012

Master's Degree Program in Automotive Engineering (AE)

**Master's Degree Program in Information and Communication Technology
for Embedded Systems (ICTES)**

**Master's Degree Program in Advanced and Sustainable Environmental
Engineering (EnvE.)**

*(All students will receive full scholarships for tuitions and fees
according to scholarship condition)*

1. Introduction

TAIST (Thailand Advanced Institute of Science and Technology) is based on the idea of collaboration among the National Science and Technology Development Agency (NSTDA) and partner universities both domestic in Thailand and institutes from abroad to develop the Thai human resources. TAIST will serve as a virtual institute and focal point. NSTDA will provide researchers to act as adjunct professors, research projects and scholarships for graduate students. The participated institutions or universities from abroad will provide world class background, expertise and experience, academic instruction and research advice. Thai universities will provide academic frame work, academic staff to oversee and guide students, and degrees for the successful candidates. The viability of the idea is nicely demonstrated by the creation of the first TAIST, namely **TAIST-Tokyo Tech**, with the cooperation of Tokyo Institute of Technology (Tokyo Tech), King Mongkut's Institute of Technology Ladkrabang (KMITL) and Sirindhorn International Institute of Technology (SIIT).

The main objective of **TAIST-Tokyo Tech** is to establish an institution for human resource development to foster and support world-class researchers and high-level engineers through a combination of advising from Tokyo Tech professors, excellent facilities and research staff in NSTDA, and established resources of Thai universities. The first participating Thai universities are KMITL and SIIT. More universities have since joined the project, namely Kasetsart University (KU), King Mongkut University of Technology Thonburi (KMUTT).

The **TAIST-Tokyo Tech** project aim to attain world top level performance by mobilization of whole institutional resources based on long history of education and research of Tokyo Tech, NSTDA, KMITL, SIIT and other participating universities. Tokyo Tech and **TAIST-Tokyo Tech** share the same philosophy of education and research - "HRD by promoting cutting-edge research activities".

It is expected that **TAIST-Tokyo Tech** will initiate the start of a positive spiral of human resource development system in Asian region. **TAIST-Tokyo Tech** aims to harmonize advanced technology with the environment and to realize research and human resource development for global sustainable development. Looking back at the history of modernization through industrial development, factors such as global warming, unusual weather and the pollution of air, water and soil indicate that there is a real risk of serious destruction of nature and life in the near future. It is urgent for us to recognize this paradigm shift in science and technology and concentrate our effort and intelligence on technologies which are in harmony with the environment. In Thailand, development and industrialization have been so drastic, compared with developed countries, that problems derived from these factors are much more serious as they become obvious. In light of such a situation, expanding research and education to harmonize advanced technology with the environment effectively and efficiently will be quite necessary and the outcome of such effort will be valuable for Thailand, as well as other countries of the world.

2. Master's Degree Programs

TAIST-Tokyo Tech has offered three Master's Degree programs with various Thai universities acting as hosts. First year students are expected to enroll in courses taught mainly by professors from Tokyo Tech. In the second year, researches for dissertations will be carried out mainly in NSTDA various laboratories with NSTDA researchers acting as supervisors or co-supervisors. Professors from Tokyo Tech will actively participate in the educational process of the students throughout each program. After a successful completion of both course work and thesis, the students will receive degrees from the host universities. These programs are:

- 1) Master's Degree Program in Automotive Engineering (AE). The host universities are KMUTT and KMITL.
- 2) Master's Degree Program in Information and Communication Technology with Embedded Systems (ICTES). The host universities are SIIT and KU.
- 3) Master's Degree Program in Advanced and Sustainable Environmental Engineering (EnvE.). The host university is KU.

3. Eligibility of Applicants for Automotive Engineering Program, Advanced and Sustainable Environmental Engineering Program and Information and Communication Technology for Embedded Systems

- 1) Applicants must hold a Bachelor's degree of either Engineering or Science in an appropriate discipline (Automotive, Mechanical, Electrical, Metallurgical, Control, Electronic, Chemistry, Physics, Mathematics, Materials, Geology, Environmental, Industrial, Agro-Industrial, Forestry, Production Forestry, Computer etc.) or to be awarded the Bachelor's degree before starting the Master's degree program.
- 2) Applicants must have the grade point average (GPA) of at least 2.75 or 2 years experience in relevant research and work as specified by the Executive Committee.

4. Target Number and Coverage of Scholarships

Around 30 scholarships will be awarded to accepted students in the Master's degree program in all programs. **All first year students receive full scholarships for tuitions and fees.** In the second year, the students are expected to receive scholarships for tuitions and fees from research projects of their supervisors.

5. Application and Screening Procedure

- 1) Applicants complete one set of TAIST-Tokyo Tech application form with the following documents
 - a) Two 1x1-inch photographs taken within the past six months.
 - b) Official Bachelor's transcript with grade point.
 - c) Statement of purpose (Summary of senior projects, Statement for study motivation, or Statement of research interest)
 - d) Letter of recommendation from applicant's Advisor.
 - e) Letter of recommendation from applicant's Lecturer or Head of department or Company supervisor, if available.
 - f) Certificate of English proficiency (TOEFL, CU-TEP, TU-GET) taken within two years before the application date, if available.
- 2) Applicants must submit the one set of completed applications by **February 29, 2012** via e-mail chayanan@nstda.or.th or **in printed forms** to

Khun Chayanan Lurdjarupong (TAIST application form)
111 Thailand Science Park,
Phahonyonthin Rd., Klong 1, Klong Luang,
Pathumthani 12120

- 3) TAIST-Tokyo Tech application committee screen applicants for admission and inform potential applicants to confirm their invitation to the scheduled interview process via e-mail. The interview process comprises two sessions, i.e. the interview itself in the morning and English proficiency test in the afternoon. *Note: At the time of admission and scholarship screening procedure, committee may contact the applicants for missing documents or further information.*

- 4) Potential applicants attend the appointed interview with missing documents or other documents upon the committee's request. Furthermore, in the afternoon, the applicants will be scheduled for an English proficiency test held by TAIST-Tokyo Tech.
- 5) TAIST-Tokyo Tech announces the Scholarship result and informs successful applicants to confirm their acceptance of the scholarship via Reply form and submit required documents back to their host University.

6. For more information please visit www.nstda.or.th/taist_tokyo_tech/ or contact

1) TAIST-Tokyo Tech Office:

TAIST-Tokyo Tech Graduate Student Coordinator

Khun Chayanan Tel. 02-564-7000 Ext. 1257 or 02-564-8017

Khun Krittaya Tel. 02-564-8016-18

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E-mail: chayanan@nstda.or.th , krittaya@titech.in.th , samanan@titech.in.th

2) Automotive Engineering Program (AE) :

Preechar Karin, Ph.D. (AE Program Director)

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Yossapong Laonual, Ph.D.

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3) Information and Communication Technology for Embedded Systems (ICTES) :

Thanaruk Teeramunkong, Ph.D. (ICTES Program Director)

E-mail: ictes@siit.tu.ac.th

Teerasit Kasetkasem, Ph.D.

Email: ictes@ku.ac.th

4) Advanced and Sustainable Environmental Engineering (EnvE.) :

Thongchai Srinophakun, Ph.D. (EnvE. Program Director)

E-mail: fengtcs@ku.ac.th