



ANNOUNCEMENT
SUT - Ph.D. Scholarship Program for ASEAN
(Phase II, Academic year 2017)
<http://www.sut.ac.th/ASEAN>

The beginning of the year 2016 marks a very important milestone for all ASEAN (Association of Southeast Asian Nations) countries because we shall be integrated into one single community. The ASEAN Community consists of three pillars, namely the ASEAN Political-Security Community (APSC), the ASEAN Economic Community (AEC) and the ASEAN Socio-Cultural Community. Higher education has an important role in supporting the establishment of the ASEAN Community and preparing the ASEAN people and countries for regional integration. Knowledge of science, technology and innovation is one of the key factors in sustaining economic growth, enhancing community's well-being and promoting integration into ASEAN. To build a strong science and technology base for ASEAN as a single integrated economy, and to ensure ASEAN remains globally competitive, ASEAN member countries have to move up the technology ladder and focus on enhancing their capability for technological innovation in many areas.

Since its establishment, Suranaree University of Technology (SUT) has constantly proved itself to be in the forefront of higher education institutions in the country and in the Asia-Pacific region. With its careful development and fast and steady progress, it has produced numerous outstanding achievements, well recognized both nationally and internationally. Highlights of these concrete achievements include its designation as one of the nine National Research Universities by the Royal Thai Government and its ranking at the highest level among the research and teaching universities in Thailand by the Office of National Education Standards and Quality Assessment in 2009, which placed SUT as No. 1 in the Public University category and No. 2 in the All University category. Furthermore, the 2006 assessment by the Office of the Higher Education Commission placed SUT in the "Outstanding Research" and "Excellent Teaching and Learning" groups due to its remarkable performance in research and teaching. The Thailand Research Fund has bestowed frequent commendations on the University and its Schools. It ranked SUT in the Outstanding Group among the science and technology universities in 2007, and it has continuously ranked the School of Physics as the country's top physics department for six years now and the School of Chemistry as "excellent" during the same period. It also ranked another eight Schools, namely the Schools of Mathematics, Biochemistry, Electrical Engineering, Telecommunication Engineering, Civil Engineering, Animal Production Technology, Biotechnology and Food Technology as either "excellent" or "very good" in the year 2010. SUT is one of the 14 Thai universities that maintain substantial international

research output to be included in the SCImago Institutions Rankings (SIR) World Report.

To respond to the establishment of the ASEAN Community and to celebrate the auspicious occasion of His Majesty the King's 84th birthday anniversary, SUT has launched the SUT-Ph.D. Scholarship Program for ASEAN to promote student mobility and Ph.D. degree program development in the region. Future employment in ASEAN will require graduates to possess additional skills apart from their professional skills, such as proficiency in English and other languages used in ASEAN, as well as intercultural skills which can best be achieved by mutual cooperation. The SUT-Ph.D. Scholarship Program for ASEAN is one definite step toward greater academic collaboration in the ASEAN Community. Nine scholarships will be granted to students or faculty members of higher education institutions in ASEAN countries to further the study of doctoral degrees at SUT in the fields of Science, Engineering, Agricultural Technology and Social Technology in the Academic Year 2017.

ELIGIBILITY:

Eligible applicants must satisfy the following criteria:

1. be national of an ASEAN country (Brunei, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore and Vietnam),
2. be of age 35 or below by the date of the application deadline,
3. hold a Bachelor's or Master's degree in a relevant field,

4. **Ph.D. scholarship for Bachelor degree holder**

hold a Bachelor's degree with GPAX ≥ 3.25 (on 4.00 scale),

Ph.D. scholarship for Master degree holder

hold a Master's degree with GPAX ≥ 3.50 (on 4.00 scale) with at least one research publication in an international standard journal, written in English,

Applicants whose grades are based on a different system, not on a 4.00 scale, are requested to convert their GPAX to 4.00 scale, and provide explanations.

5. possess proficiency in English

for English Language Studies program: TOEFL ≥ 550 or IELTS ≥ 6.0 ,

for all other Ph.D. programs: TOEFL ≥ 500 or IELTS ≥ 5.0 ,

or scores obtained through other equivalent standardized tests. The results of the English tests must not be older than 2 years by the date of the application deadline.

6. not have been granted a scholarship under this program before.
7. be of good health.

PROGRAMS OFFERED:

Applicants for the Scholarship **must** choose to study in maximum three of the following Ph.D. programs offered by SUT:

Institute of Science

Contact Person: Prof. Dr. Kritsana Sagarik,

Email: kritsana@sut.ac.th or visit website <http://science.sut.ac.th/2013>

- **School of Mathematics: Ph.D. (Applied Mathematics)**
<http://math.sut.ac.th/> and <http://science.sut.ac.th/2013/mathematics>
 - Differential Equations, Analysis
- **School of Chemistry: Ph.D.(Chemistry) and Ph.D.(Biochemistry)**
<http://science.sut.ac.th/2013/chemistry>
 - Chemistry:** Analytical Chemistry (Biosensors, Chemical Sensors, Microseparation), Computational Chemistry, Inorganic Chemistry(Energy Materials, Hydrogen Storage, Porous Materials, Heterogeneous Catalysis)
 - Biochemistry:** Protein Structure and Functions, Carbohydrate Active Enzymes in Plants and Human, Medicinal Biochemistry
- **School of Biology: Ph.D. (Environmental Biology)**
<http://science.sut.ac.th/2013/biology>
 - Ecology, Biodiversity and conservation, Environmental Physiology, Bioresource Technology and Applications, Cell and Molecular Biology and Environmental Toxicology
- **School of Microbiology: Ph.D. (Microbiology)**
<http://science.sut.ac.th/2013/microbiology>
 - Medical, Industrial and Agricultural Microbiology
- **School of Preclinic: Ph.D. (Biomedical Sciences)**
<http://science.sut.ac.th/2013/pharmacology>
 - Anatomy, Physiology and Structural Biology, Cellular and Molecular Medicine, Host/Pathogen Interactions, Pathobiology, Pharmacology and Toxicology, Stem Cell Biology and Gene Therapy
- **School of Physics: Ph.D. (Physics) and Ph.D. (Applied Physics)**
<http://science.sut.ac.th/2013/physics>
 - Quantum Field Theory, High Energy Physics, Theoretical Physics, Nuclear Physics, Condensed Matter Physics, Accelerator Physics, Laser Technology, Optical Information Processing and Biomedical Optics, Materials Physics, Astrophysics
- **School of Remote Sensing: Ph.D. (Geoinformatics)**
<http://science.sut.ac.th/2013/remote-sensing>
 - GIS, MCDA, Geology for Resource Management and Geohazard Study, Environmental Resources (Forest), Remote Sensing, Meteorology, Photogrammetry, Urban and Locational Study

Institute of Engineering

Contact Person: Assoc. Prof. Dr. Peerapong Uthansakul,

E-mail: uthansakul@sut.ac.th or visit website <http://eng.sut.ac.th>

- **School of Chemical Engineering : Ph.D. (Mechanical and Process System Engineering)**
Adsorption, Biomass Conversion, Crystallization, Powder Technology, Bioseparation Renewable Energy, Particle Technology, Modeling of Chemical Process
- **School of Mechanical Engineering : Ph.D. (Mechanical and Process System Engineering)**
Adaptive System, Vibration Analysis, System Analysis, Heat Transfer Analysis, Finite Element Analysis, Thermal-Fluid Science, Alternative Energy, Industrial Automation, Refrigeration and Air Conditioning, Combustion, CFD, Computer Aided Engineering, Control Systems
- **School of Polymer Engineering : Ph.D. (Materials Engineering)**
Material engineering specialized in properties of plastic, polymer blends and composites. Processing and designs of plastic products. Testing and characterization of polymeric material. Biopolymer, Rubber and Smart polymer
- **School of Geotechnology : Ph.D. (Civil, Transportation and Geo-resources Engineering)**
Geological Engineering Rock Mechanics
- **School of Telecommunication Engineering : Ph.D. (Telecommunication and Computer Engineering)**
Telecommunication Engineering, Antennas, Network, Wireless Communications, Mobile Communications, V2V, Cognitive Radio, Optical Communications, Digital Signal Processing, Sensor Networks, Brain Wave Communication
- **School of Industrial Engineering : Ph.D. (Industrial Systems and Environmental Engineering)**
Optimization, Systems Engineering, Production and Inventory, Supply Chain and Logistics, Healthcare Logistics, Human Factors and Ergonomics, Applied Manufacturing, Modern Manufacturing
- **School of Transportation Engineering : Ph.D. (Civil, Transportation and Geo-resources Engineering)**
Transportation Safety, Transportation Planning and Traffic Engineering
- **School of Electrical Engineering : Ph.D. (Electrical Engineering)**
Computer and Robot Vision, Signal and Image Processing, Electronic Systems, Power and Energy, Control and Automation, Microelectromechanical Systems (MEMS), Power Quality Research Unit (PQRU), Power Electronics, Machines, and Control (PeMC)
- **School of Environmental Engineering : Ph.D. (Industrial Systems and Environmental Engineering)**
Water Treatment, Water Quality Management, Wastewater Treatment, Constructed Wetlands, Industrial Waste Management, Adsorption, Air Quality Control and Air Pollution

- **School of Civil Engineering : Ph.D. (Civil, Transportation and Geo-resources Engineering)**
Geotechnical Engineering
- **School of Ceramic Engineering : Ph.D. (Materials Engineering)**
Nanomaterials, Ceramic Composites, Structural Ceramics, Piezoelectric Ceramics, Electronic Ceramics, Conventional Ceramics, Glass, Bioceramics, Smart Materials, Electronic Ceramics, Fuel Cells, Functional Ceramics, Piezoelectric Materials, Multiferroic Materials

Institute of Agricultural Technology

Contact Person: Prof. Dr. Neung Teaumroong,

E-mail: neung@sut.ac.th or visit website <http://iat.sut.ac.th>

- **School of Crop Production Technology: Ph.D. (Crop Science)**
 - Plant Breeding, Crop Physiology, Postharvest and Seed Technology, Soil and Water Management, Plant Protection
- **School of Animal Production Technology: Ph.D. (Animal Production Technology)**
 - Monogastric Animal Nutrition, Ruminant Nutrition, Animal Breeding, Animal Physiology, Veterinary Science, Fish Genetic, Aquaculture Cryopreservation of Animal Spermatozoa
- **School of Food Technology: Ph.D. (Food Technology)**
 - Food Processing, Food Chemistry, Food Microbiology, Food Engineering, Product Development, Food Carbohydrates, Bioactive Peptides, Starter Cultures in Food, Physico-Chemical Properties of Food, Food Rheology and Emulsion
- **School of Biotechnology: Ph.D. (Biotechnology)**
 - Agricultural and Microbiological Biotechnology, Molecular Biotechnology, Embryo and Stemcell Technology, Industrial and Bio-Engineering, Molecular Biology of Plant-Microbe Interaction Neutraceutical Biotechnology, Antibody Engineering

Institute of Social Technology

Contact Person: Assoc. Prof. Dr. Anchalee Wannaruk,

E-mail: wannaruk@sut.ac.th

visit website <http://soctech.sut.ac.th> and website <http://soctech.sut.ac.th/it/>

- **School of Foreign Languages: Ph.D. (English Languages Studies)**
 - Pragmatics, Discourse Analysis, English for Specific Purposes
 - (for M.A holders only)
- **School of Information Technology: Ph.D. (Information Technology)**
 - Digital Media, Semantic Web, Parallel and Distributed Computing, Expert System, Software Engineering , Human Computer Interaction

DURATION OF SCHOLARSHIPS:

- Ph.D. scholarship for Bachelor degree holder: Five academic years
**Academic years 2017-2021 for applicants holding a Bachelor's degree*
- Ph.D. scholarship for Master degree holder: Three academic years
** Academic years 2017-2019 for applicants holding a Master's degree*

SCHOLARSHIP BENEFITS:

Group 1: Ph.D. scholarship for Bachelor degree holder: 1,200,000 Baht

Group 2: Ph.D. scholarship for Master degree holder: 960,000 Baht

Expenses covered by the scholarship:

- Tuition and all relevant fees,
- Group 1: Monthly allowance of 11,000 Baht for the first two academic years and 13,000 Baht thereafter,
Group 2: Monthly allowance of 13,000 Baht for three academic years,
Research budget of 250,000 Baht for the Ph.D. Dissertation,
Reserved budget of 68,000 Baht for activities relevant to the study for the duration of the scholarship at SUT (endorsed by the committee on a case by case basis)

Expenses to be covered by scholarship fellow:

- Damage deposit of 6,000 Baht (will be refunded upon completion and / or exit of program),
- Graduation fee of 2,000 Baht (will be deducted from the damage deposit),
- Health insurance: Scholarship fellows must carry comprehensive health insurance valid in Thailand.

DOCUMENTS REQUIRED FOR APPLICATION:

- Original copy of the application form with a photograph taken not more than six months from the deadline of the application,
- A certified copy of all degree certificates,
- A certified copy of transcript of records with grades and grade point average in English,
- 2 letters of recommendation in English,
- English translation of national identification card or certified copy of passport showing date of birth,
- Certification (TOEFL or IELTS or any other equivalent standardized test) not older than 2 years by the date of the application deadline.
 - Health certification, certified by physician.

HOW TO APPLY:

Application forms can be downloaded from website at: <http://www.sut.ac.th/ASEAN>
Applicants have to specify the name of their intended School and their area of interest for study. The final decision for scholarship will be made by the selection committee at SUT. Applicants will be interviewed by video conference via Skype by the SUT selection committee.

WHERE TO SUBMIT APPLICATION PACKAGE:

Scholarship applicants have to submit application together with all documents required and submit them to: The Center for International Affairs, Suranaree University of Technology, Nakhon Ratchasima, THAILAND 30000. Please mark "SUT-Ph.D. Scholarship for ASEAN" at the bottom right corner of the application package. *It is recommended to also submit the application form and all required documents electronically (pdf files with size less than 5 MB via e-mail to asean@sut.ac.th).* Please note the incomplete application will not be considered.

SELECTION SCHEDULE:

- **Deadline for Submission:** January 31st, 2017
- **Interview via Skype:** April 20th, 2017
- **Result Announcement:** May 5th, 2017

CONTACT ADDRESS AND WEBSITE:**Contact Address:****SUT-Ph.D. Scholarship Program for ASEAN**

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