



Thai-Swedish Trilateral Development Cooperation Programme

GENERAL INFORMATION

A joint Doctoral Fellowship Programme for students from Bangladesh, Bhutan, Nepal, Sri Lanka and CLMV countries (Cambodia, Lao PDR, Myanmar, and Vietnam) is co-sponsored by the Thailand International Cooperation Agency (TICA), the National Research Council of Thailand (NRCT), and the Swedish International Development Cooperation Agency (Sida) (managed by the International Science Programme (ISP), Uppsala University).

This joint Doctoral Fellowship Programme is a joint collaboration between Sweden and Thailand aiming at supporting interested students from Bangladesh, Bhutan, Nepal, Sri Lanka and CLMV countries (up to five scholarships per year) to pursue their doctoral studies in Thailand and Sweden, with the opportunity to undertake research with Thai and Swedish advisors of academic excellence in the scientific fields of Chemistry, Mathematics, Physics, and Biology.

1. Academic disciplines, qualifications, and duration of studies

- 1.1 This programme is open to public and private personnel as well as university graduates from all academic disciplines in the field of Chemistry, Mathematics, Physics, and Biology in particular regarding studies contributing to the development objectives of the applicant's country.
- 1.2 The interested applicants should have the following qualifications:
 - A master's degree in a discipline related to the proposed doctoral study with a GPA of not less than 3.5 (from a total of 4.0) or equivalent from an institution of higher education recognized by NRCT, and
 - A bachelor's degree with a GPA of not less than 3.0 (from a total of 4.0) or equivalent from an institution of higher education recognized by NRCT;
 - Research publication(s) or oral/poster presentation(s) at a scientific meeting with English abstract(s) will be given a priority;
 - Appropriate background to undertake the proposal he/she has outlined.
- 1.3 The fellowship will be awarded when a successful applicant has been accepted as a doctoral student in a Thai university's doctoral programme recognized by NRCT.
- 1.4 The prospective major thesis advisor of the applicant in a Thai university's doctoral programme must be qualified under the regulation stipulated by NRCT.
- 1.5 Participants are expected to complete their doctoral studies within 3 consecutive academic years (2 years in Thailand and 1 year in Sweden). Should any participant wish to prolong his/her research (in Thailand or Sweden), his/her major thesis advisor

- in a Thai university's doctoral programme will have to submit a request to NRCT.
- 1.6 This request will then be submitted to TICA and the ISP for consideration. If approved, the prolonged period of study should not exceed 1 year in Thailand or in Sweden.
- 1.7 Once the prolongation of the study has been approved, TICA and NRCT shall be responsible for the expenditures allocated in individual granting contract to cover the prolonged period of the study undertaken in Thailand for no more than 1 year. The ISP shall be responsible for the expenditures incurred in Sweden. However, if a student cannot complete his/her doctoral study within 4 years, he/she will still be able to pursue his/her doctoral study within the timeframe set by his/her university in Thailand, but with his/her own support.

2. **Application procedures**

- 2.1 Any interested applicant should submit three (3) copies of completed application form together with proposed research plan and relevant documents listed in the attached checklist to the Royal Thai Embassy or Royal Thai Consulate in their respective countries.
- The detailed guidelines for application are as follows;
- i. For the government officer: must get approval from their organizations prior to submitting their application through the designated focal point agency for development cooperation in their respective countries;
 - ii. For the non-government officer : must get approval from their organizations prior to submitting their application directly to the Royal Thai Embassy or Royal Thai Consulate in their respective countries
 - iii. For the students who are currently studying in Thai Universities : must get permission from their organizations to continue study for doctoral degree prior to submitting their applications directly to the Royal Thai Embassy or Royal Thai Consulate in their respective countries.
- 2.2 **Up to five (5) fellowships** may be awarded each year for postgraduate students from Bangladesh, Bhutan, Nepal, Sri Lanka and CLMV to pursue their Ph.D studies in Thailand and Sweden.
- 2.3 The Royal Thai Government will inform the nominating government (or relevant authority) whether or not the nominee(s) has been accepted for the course, normally at least two months before the programme of study starts.
- 2.4 Information of programme and the application form can also be accessed or downloaded at the following websites:

National Research Council of Thailand (NRCT)
<https://nriis.nrct.go.th>

Thailand International Cooperation Agency (TICA)
<https://tica-thaigov.mfa.go.th>

3. General Qualification

An applicant must:

- 3.1 be a citizen from one of 8 eligible countries, namely the Kingdom of Cambodia, the Lao People's Democratic Republic, the Union of Myanmar, the Socialist Republic of Vietnam (CLMV); the People's Republic of Bangladesh, or the Federal Democratic Republic of Nepal, or the Kingdom of Bhutan, or the Democratic Socialist Republic of Sri Lanka;
- 3.2 be under 40 years of age;
- 3.3 fulfill the qualifications required by NRCT, as described under 1.1 and 1.2;
- 3.4 be fluent in written and verbal English as courses are conducted in English;
- 3.5 be in good health, both physically and mentally, as they are required to stay throughout the course;
- 3.6 meet the required qualifications specified for the programme;
- 3.7 be prepared for at least three years for a study leave as required for a successful candidate.

4. Allowances and Expenses

The following allowances and expenses will be borne by the Royal Thai Government and the Swedish Government:

- 4.1 An economy class air ticket from an appropriate international airport of the student's home country to Thailand will be sent to each participant by a representative of the Thai Airways International, or through the National Airline Office in the participant's country. An air ticket to the home country will be issued to each participant just one week before the completion of his/her Ph.D. study as well as the fellowship contract. Participants should not buy air tickets themselves and should be advised that if they do so, the cost cannot be reimbursed.
- 4.2 For research study in Sweden for 1 year, the participant's major thesis advisor has to submit a travel and research plan, in consultation with the Swedish co-advisor, to the ISP at least three months before the end of the Swedish fiscal year (31 December) for approval prior to their study leave beginning January of the following year. The ISP will arrange for an economy return air ticket from Sweden.
- 4.3 While studying in Thailand, each participant who study in Bangkok, Nonthaburi, Pathum Thani, Nakorn Pathom, Samut Prakan, Phuket or Chonaburi will receive the monthly allowance of 16,000 Baht, which is living allowance at the rate of 7,000 Baht to cover meals, local transportation and other personal expenses; and accommodation allowance at the rate of 9,000 Baht; and other expenses, such as health insurance, educational and research expenses, educational materials, field trips, and thesis preparation. For participants who study in other provinces will receive monthly allowance in the amount of 14,000 Baht, which is living allowance

at the rate of 7,000 Baht and accommodation allowance at the rate of 7,000 Baht. It is suggested that each participant bring some pocket money to cover the initial expenses before the allowance is paid.

- 4.4 While studying in Sweden, each participant will receive a health insurance, exemption of fee for residence permit, and a monthly subsistence allowance covering personal expenses and accommodation.
- 4.5 Participants should be in good health and must not have any health condition, which may require treatment in Thailand and Sweden during the study.

5. Regulations

Participants are required to observe the following regulations:

- 5.1 Participants should only stay at places recommended by the Royal Thai Government and the Swedish Government.
 - 5.2 Participants must not bring any family members with them to Thailand and Sweden.
 - 5.3 Participants must return to their home countries after the completion of his/her Ph.D. studies as well as the fellowship contract at the scheduled date. Participants are required to fly only on the route designated and must not make any alterations. Please be informed that the maximum allowable baggage that can be loaded on flights is 20 kilograms. Participants will be responsible for any cost incurred in exceeding this limit.
 - 5.4 Participants must observe the rules and regulations of the institution(s) and the fellowship contract.
 - 5.5 Participants must refrain from engaging in political activities, or any form of employment for profit or gain.
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**ทุนศึกษาปริญญาเอกภายใต้ความร่วมมือไตรภาคีไทย - สวีเดน
ประจำปีการศึกษา ๒๕๖๗**

๑. **ความเป็นมา** : กรมความร่วมมือระหว่างประเทศ/สำนักงานการวิจัยแห่งชาติ/สอท. สวีเดน/ปทท. และ Uppsala University โดย The International Science Programme ได้ลงนามในบันทึกความเข้าใจ โครงการทุนศึกษาปริญญาเอกภายใต้ความร่วมมือไตรภาคีไทย - สวีเดน (Memorandum of Understanding between Thailand International Cooperation Agency, National Research Council of Thailand, Development Cooperation Section, The Embassy of Sweden in Thailand and Uppsala University: The International Science Programme, Sweden, in agreement with the Swedish International Development Cooperation Agency, Sweden on Joint Fellowship Programme for Doctoral Studies: Phase II) เมื่อวันที่ ๑๒ ตุลาคม ๒๕๖๓ เพื่อเป็นกรอบดำเนินงาน/สนับสนุนทุนปริญญาเอกแก่ประเทศที่มีรายได้น้อยในภูมิภาคเอเชียใต้ และเอเชียตะวันออกเฉียงใต้ จำนวนปีละไม่เกิน ๕ ทุน โดยไม่กำหนดโควตาสำหรับแต่ละประเทศ แต่จะพิจารณาคัดเลือกตามคุณสมบัติของผู้สมัคร เพื่อศึกษาในสถาบันการศึกษาของไทยเป็นเวลา ๒ ปี และไปศึกษาวิจัย ณ สถาบันการศึกษาของสวีเดนอีก ๑ ปี
๒. **ประเทศเป้าหมาย** : CLMV บังกลาเทศ ภูฏาน เนปาล และศรีลังกา
๓. **สาขา** : Basic Science ได้แก่ Chemistry, Mathematics, Physic และ Biology
๔. **คุณสมบัติทั่วไปของผู้สมัคร** : ผู้มีสิทธิ์สมัครรับทุน ได้แก่ ข้าราชการ นักศึกษา และบุคคลทั่วไปที่มีอายุไม่เกิน ๔๐ ปีนับถึงวันที่ส่งใบสมัคร โดยความเห็นชอบของหัวหน้าส่วนราชการ หน่วยงานต้นสังกัด/บริษัท (ภาคเอกชน) สำหรับผู้ที่กำลังศึกษาระดับปริญญาโทอยู่ในประเทศไทย จะต้องได้รับอนุญาตจากรัฐบาล/หน่วยงานต้นสังกัดให้ลาศึกษาต่อในระดับปริญญาเอกก่อน จึงจะได้รับการพิจารณาว่าอยู่ในข่ายการสมัครรับทุนดังกล่าว
๕. **การยื่นใบสมัคร** : เจ้าหน้าที่ภาครัฐดำเนินการผ่านหน่วยงานกลางผู้ประสานงานความร่วมมือกับต่างประเทศของประเทศนั้น ๆ ไปยัง สอท. สำหรับผู้สนใจที่เป็นหน่วยงานภาคเอกชนและบุคคลทั่วไปซึ่งได้รับข้อมูลการเปิดรับสมัครจากช่องทางอื่นสามารถยื่นใบสมัครได้ที่ สอท. ไทยประจำปีประเทศนั้น ๆ
๖. **แบบฟอร์มใบสมัคร** : จัดทำแบบฟอร์มตามเอกสารแนบพร้อมเอกสารที่เกี่ยวข้อง คนละ ๓ ชุด และจัดส่งให้ สอท. เพื่อส่งให้กระทรวงฯ ภายในกำหนดเวลา

List of RGJ advisors for the Joint Fellowship Program for Doctoral Study in Thailand academic year 2024

No.	Field of study	Research title	Name - Surname	Institution	Research stakeholders	Keyword	Telephone	E-mail
1	Chemistry	Photophysical studies of binding DNA and pi-conjugated fluorene derivatives	Associated Prof. Thibinu Kairat, Ph.D.	Kasetsart University	Collaborated with Prof. Bo Albrinsson, Department of Physical Chemistry, Chalmers University of Technology, Gothenburg, Sweden	Fluorenes, DNA binding, photophysical properties, fluorescence spectrometry	(+66) 0935399556	facthnm@ku.ac.th
2	Chemistry	Selective Fluorescence Sensing of D-Proline and O-Alanine in Saliva via Molecularly Imprinted Polymer Coupled with Graphene Quantum Dots (MIP-GQDs) for Gastric Cancer Detection	Associate Prof. Dr. Purim Jarujamus	Ubon Ratchathani University	1. Ubon Ratchathani Cancer Hospital 2. Ubon Ratchathani University Hospital	Gastric cancer, D-argino acid, D-proline, D-alanine, Biosensor, Fluorescence sensor, Molecular imprinted polymer (MIP), Diagnosis, Graphene quantum dots (GQDs)	(+66) 0956059061	puurim.j@ubu.ac.th paxfm31@hotmail.com
3	Chemistry	The Discovery of Anti-mutidrug Resistant Bacteria Candidates based on Lugdunin and Morticinide Scaffold	Asst. Prof. Panumart Thongyoo	Thammasat University	None	Lugdunin, Anti-superbug activity, Antibiotic, Cyclic peptide, Morticinide	(+66) 0870711249	panumas@tu.ac.th
4	Mathematics	Efficient Optimization Algorithms for Applying in Dementia Screening Using Deep Learning Technique	Assoc. Prof. Dr. Watcharaporn Chodamalak	University of Phayao	University of Phayao hospital	Dementia, Data Classification, Deep Learning, Optimization Algorithm, Screening	(+66) 0895568052	watcharaporn.ch@up.ac.th
5	Mathematics	On the Evolution Equation with Nonlinear Damping and Source	Asst. Prof. Sawanya Sakuntasathien, Ph. D.	Silpakorn University	None	Solution, Evolution Equation, Hyperbolic Equation, Source, Damp	(+66) 0876755552	sakuntasathien_s@su.ac.th
6	Physics	Transitionmetal decorated reduced grapheneoxide nanocomposites for photocatalytic dye degradation	Assoc. Prof. Sirkarjana Thongmee, Ph. D.	Kasetsart University	None	Reduced Graphene Oxide, Nanocomposites, Metal oxide nanoparticles, Dyes, Photodegradation	(+66) 0869993234	fscthrng@ku.ac.th
7	Physics	OFF-based machine Learning force field for materials formation	Assoc. Prof. Adisak Boonchun, Ph. D.	Kasetsart University	None	OFF-based machine learning, Machine Learning Force field, predicting material properties	(+66) 0840123400	adisak.bo@ku.th

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No.	Field of study	Research title	Name - Surname	Institution	Research stakeholders	Keyword	Telephone	E-mail
8		Investigation on spintronic thermoelectric based on the transparent thin film	Assoc. Prof. Athorn Vora-ud Ph. D.	Sakon Nakhon Rajabhat University	None	transparent thin film, spintronic thermoelectrics, anomalous Neerst effect	(+66) 0639690453	athornvora-ud@snru.ac.th
9	Biology	Development of smart genosensors for detection of carbapenem resistant Enterobacteriales in clinical samples	Asst. Prof. Dr. Kamornrat Phopin	Mahidol University	AFTER LAB COMPANY LIMITED	Carbapenem resistant Enterobacteriales, Genosensor, Electrochemistry	(+66) 0830919008	kamornrat.phop@mahidol.edu
10	Biology	Combining biochar with lipopeptide-producing bacteria for sustainable cropping systems	Asst. Prof. Dr. Juangrun Jumphaiphong	Naresuan University	None	Biochar, Lipopeptide, Bacteria, Microbial Community, Sustainable Cropping Systems, Arbuscular Mycorrhizal Fungi	(+66) 055962731 (+66) 0846115383	juangrun@nu.ac.th
11	Biology	Roles of advance glycated and products in the progression of cholangiocarcinoma in diabetic conditions	Asst. Prof. Charupong Saengboonmee, M.D., Ph.D.	Khon Kaen University	None	Diabetes mellitus, Cholangiocarcinoma, Hyperglycemia, Glycation, Glucose Metabolism	(+66) 0879539769	charusa@kku.ac.th
12	Biology	Development of folic acid-decorated mesosomes for targeted delivery of cytotoxic drug combining with lutein as pro-oxidant against breast cancer cells	Prof. Dr. Praneet Opanasopit	Sripakorn University	None	folic acid, mesosomes, pro-oxidant, lutein, breast cancer	(+66) 0909710710	opanasopit_p@su.ac.th
13	Biology	Utilization of anthocyanin compounds from purple Napier grass in combination with selenium on plasma antioxidant and yield efficacy in meat goats in the summer season	Associate Prof. Dr. Pramote Paengkrum	Suranaree University of Technology	1. Dan Khun Tod Agricultural Cooperative Limited 2. Non-Sung Agricultural Cooperative Limited 3. Zahira Farm	Anthocyanin, Purple Napier Grass, Selenium, Antioxidant, Summer Season	(+66) 044224575 (+66) 0872353974	pramote@sut.ac.th
14	Biology	Defect on DNA damage repair of myeloid cells in ischemic reperfusion injury using conditional mgmt-deleted LysM-Cre mice, the possible impacts of MGMT inhibitor in kidney disease	Asada Leelahavanichkul	Chulalongkorn University	None	methylguanine methyltransferase, macrophage, neutrophil, LysM-Cre mice	(+66) 0817149750	leelahavanit@gmail.com