Thailand Research Fund: International Collaboration

Pongrama Ramasoota  DVM, Ph.D.
Assist. Director
International Research Network
Thailand Research Fund
Who We Are:
A Catalyst for Changes

- Established in 1992 by the Research Endowment Act of 1992 as an organization under the Prime Minister’s Office

**No intramural research activities.**

- Cover all disciplines of **Sciences, humanities and social science**
  - All dimensions of research: basic, translation, community
    - 50% of all budget go to basic research
    - 40% of proposals are granted
Top Fund Award

Top Fund Award for 3 consecutive years 2012, 13, 14

in Best Management
From Ministry of Finance
Annual Budget

• **1992 (first year)**
  - 200 million Baht (7 million USD)
  - 1,000 million Bath (40 million USD) for the endowment fund

• **2015**
  - Estimated 2,200 million Baht (73 million USD) (not include endowment)
Research Grants

2014

• Have granted 1,577 grants

• Published 1,640 papers in WoS
  - Thailand ranks as 3rd among ASEAN country

• 200 PhD Students graduated and 1,000 PhD students are studying.

• 10,000 researchers working under TRF support.
Research funding landscape:

1. **Division 1: National Policies and International Relations;** improve economic efficiency, social justice, international collaboration through cross-discipline R&D

2. **Division 2: Agriculture** (one Health Research)

3. **Division 3: Public Well-being;** Environment social welfare

4. **Division 4: Community and Social Development;** natural resource & environment management

5. **Division 5: Industry;** rubber, value-added agriculture food products, SME, tourism, logistic, defense

6. **Community-Based Research Division (CBR)** empower local community

7. **Area-Based Collaborative Research (ABC);** research & knowledge management from all sectors in each area (25 provinces)
Career development for qualified researchers through research funding

8. Academic Research Division (ARD)

- Young researcher: 0.6 M ฿ / 2Y
- Early mid-career researcher: 1.5 M ฿ / 3Y
- Late mid-career researcher: 2.5 M ฿ / 3Y
- Senior researcher: 7.5 M ฿ / 3Y
- Distinguished Professor: 9 M ฿ / 3Y

http://academic.trf.or.th
Human resource development schemes supported by TRF through mobility funding of graduate students and researchers

9. The Royal Golden Jubilee Programme (RGJ) - established in 1996
   ● Ph.D. fellowships (overseas research collaboration)
   
   Deadline 31 March, 2015 (New adviser)

10. Research and Researcher Development for Industry Programme (RRi) - established in 2012
   ● Ph.D. fellowships (overseas research collaboration)
   ● Master degree fellowships
   ● Research questions must come from industries

11. International Research Network Programme (IRN) - established in 2013
   ● Ph.D. fellowships (overseas research collaboration)
   ● Post-Doc fellowships (Thai and overseas post-doc working in Thailand)
   ● Research grants
   ● Build research network
Estimated inputs and outputs of IRN - initiated by RGJ

Input:
- Ph.D. Fellowships
- Postdoctoral Fellowships
- Research Grants from Thai Research Funding Agency/Industry
- Research Grants from Overseas Research Funding Agency/Industry

Output:
- 5 Principle Investigators
- 3-5 Post-Doctoral Researchers
- 25 Ph.D. Students
- 5-10 Oversea Collaborators
- M.S./B.Sc.

Impact:
- To achieve goals of national research policy
- Sustainable research networks
- Sustainable country's growth in global arena
- Mechanism to encourage collaboration
- To enhance research & increase Thailand competitiveness

Estimated inputs and outputs of IRN – initiated by RGJ

IRN March 2015
Mission of each IRN

1st Phase

- Yr 1: Mobility Fund
  - Students & researchers exchange programs

2nd Phase

- Yr 4: Joint Research Fund
  - Co-research projects (supporting research fund)

- Yr 5

- Yr 6: Joint Research Center
  - Create joint research organization

8-10 years
International Research Network (IRN) Grant 2015

3 years grant, Ph.D. student contracted can be extend

- **L-Full grant 15 M ฿**
  - 5 Ph.D. fellowships
  - 2 (man-year) Post-Doc fellowship
  - research grant

- **M-Full grant 12 M ฿**
  - 5 Ph.D. fellowships
  - research grant

- **S-Full grant 8 M ฿**
  - 2 Ph.D. fellowships
  - 2 (man-year) Post-Doc fellowship
  - research grant
แผนการจัดสรรทุน เพื่อสนับสนุนงบประมาณแต่ละเครือข่าย ปี 2558

<table>
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<tr>
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<td>12,000,000</td>
<td>100%</td>
<td>8,000,000</td>
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Clusters of Network prioritized by TRF under IRN Programme

☑ งานวิจัยที่ช่วยผลักดันและขับเคลื่อนประเทศไทยให้หลุดพ้นจากกับดักประเทศรายได้ปานกลาง ซึ่งได้แก่ งานวิจัยเชิงยุทธศาสตร์ งานวิจัยด้านสังคมศาสตร์และมนุษยศาสตร์ งานวิจัยด้านวิทยาศาสตร์และเทคโนโลยี ซึ่งอาจเป็นงานวิจัยพื้นฐาน และ/หรืองานวิจัยประยุกต์ (Research that help promoting and developing Thailand to overcome the middle income trap country which included; research on strategy or policy, research on Social sciences & humanity, research on science and technology which can be basic and/or applied research)

☑ การพัฒนายาใหม่จากสารสกัดธรรมชาติ และ/หรือจากวิธีการทางเทคโนโลยีชีวภาพ (Drug development from natural product and/or biotechnology)

☑ การเปลี่ยนแปลงโครงสร้างประชากร (Demographic Transition)
Proposal calls under IRN programme

IRN application – at the state of “Letter of Intent”

– Apply by full-time researchers in Thai universities/research institutes

– At least 3 institutions in Thailand doing research to answer Thailand’s research agenda

– Highly qualified research PI and team

  • Age \( \leq 62 \) years
  • Must be corresponding author of at least 5 papers during the last 5 years (Impact factor \( \geq 5 \))
  • H-index 10

Apply only via \( \text{http://irn.trf.or.th} \)

* Deadline 31 March, 2015 *
Proposal calls under IRN programme

• IRN application – at the state of “Full proposal submission”
  – Highly qualified PI and research team (national and international)
    • International partners are identified
    • Existing collaboration(s) should be pronounced
  – Qualities of research proposal, output and impact to Thailand
  – Show knowledge transfer from senior researchers to young researchers

1 May – 30 June, 2015
– Proposal will be reviewed by Foreign & Thai Reviewers

* Result will be announced in August, 2015 *
แผนการดำเนินงานและการประเมินข้อเสนอโปรแกรมวิจัย

<table>
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<th>ช่วงเวลา</th>
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<td>เปิดรับข้อเสนอโปรแกรมวิจัยเชิงหลักการ</td>
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<td>ประเมินข้อเสนอโปรแกรมวิจัยเชิงหลักการโดย คณะกรรมการคัดเลือกโครงการพัฒนาเครือข่ายวิจัยนานาชาติ และประกาศโครงการที่มีสิทธิ์ยื่นข้อเสนอโปรแกรมวิจัยฉบับเต็ม</td>
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The Newton Fund

“Research and Innovation for Growth and Prosperity”
The Vision

The UK will use its strength in research and innovation to **promote the economic development and social welfare of partner countries.** By working together on bi-lateral and multi-lateral programmes with a research and innovation focus, the UK will **build strong, sustainable, systemic relationships** with partner countries. This will support the continued excellence of the UK research base and innovation ecosystem and will unlock opportunities for wider collaboration and trade.
The Pillars

- PEOPLE
- RESEARCH
- TRANSLATION
Potential Newton Fund people activity - examples

• **PhD Partnerships:** British Council and RCUK would broker PhD Partnerships between UK and partner country institutions.

• **Newton International Fellowships:** The Royal Society, Academy of Medical Sciences and British Academy would offer early career researchers fellowships.

• **Newton Fund Advanced Fellowships:** The Royal Society, Academy of Medical Sciences and British Academy would offer fellowships to develop research capacity in partner countries by linking early- to mid-career research group leaders with UK research groups.

• **Newton Leaders in Innovation Fellowships:** The Royal Academy of Engineering would offer fellowships focussed on developing academia and industry links.

• **Newton International Exchanges:** The Academies and British Council would organise shorter exchanges for UK and partner country researchers e.g. summer placements in labs.
Potential Newton Fund people activity - continued

• **Newton Researcher Links** British Council and UK National Academies would offer a programme to stimulate initial links between, and support capacity building among, ‘rising star’ early career researchers in partner countries and the UK.

• **Professional development and engagement** (skills for researchers and research support staff, including English skills; community engagement; support for research governance and strategies at institutional level etc.)

• **STEM (Science, Technology, Engineering and Maths) Education** – support for STEM learning at the schools level

• **Technical training and employability** – building the science and innovation workforce outside academia
Research

Collaborative research programmes

• Joint research calls
• Joint centres
• Access to research and innovation infrastructure

- Living With Environmental Change
- Global Uncertainties
- Health
- Energy
- Food Security
- Big Data
Potential Newton Fund research activity – examples

• Global Health Research Call (MRC lead)
• International Wheat Yield Partnership (BBSRC lead)
• Sustainable Development in Urban Areas (ESRC lead)
Translation

• Climate Science for Service Partnership: China

• Research and Innovation Bridges

• Global Innovation Capacity Building

• Developing entrepreneurial skills in S&I small and medium sized enterprises
Potential Newton Fund translation activity - examples

- **Global Innovation Capacity Building** Bodies such as the Technology Strategy Board could work with government ministries and innovation agencies to share effective policies and practice.

- **Research and Innovation Bridges** Institutional “bridges” between UK Catapults and centres of innovation focusing on particular challenge areas

- **Newton Institutional Links** University-University programmes aiming to bring new technologies that can be spun-out potentially creating enterprises that can offer practical solutions to address particular needs affecting partner country’s low income communities
Result Chain formulation for LogFRAME

- **GOAL (impact)**
  - Improvement in National Competitiveness and Quality of Life through utilizing science, research and innovation as a driving force

- **OBJECTIVES (outcomes)**
  - Develop a human capital in research and innovation
  - Improve a scientific research standards and infrastructure
  - Build a capacity for translating research and innovation to commercial
  - Enhance learning capacity of a R&D regional network

- **ACTIVITIES**
  - People Programme
  - Research Programme
  - Translation Programme

UNCLASSIFIED
Our partner countries

- Egypt
- China
- Colombia
- Chile
- South Africa (and sub-Saharan Africa)
- Mexico
- Turkey
- Kazakhstan
- India
- Vietnam
- Thailand
- Philippines
- Malaysia
- Indonesia
- Turkey
- Kazakhstan

Map showing the countries mentioned.
Newton UK – Thailand
Research and Innovation Partnership Fund

“Up to £4 million / year could be available for collaboration with Thailand...”
The Partnership

We want a genuinely bilateral partnership where both sides – and global knowledge and innovation - gain significant benefit.

• The UK and partner countries already collaborate on a wide-range of research & innovation topics – we want to use the Newton Fund to take this to the next level

• We have some ideas for work we might take forward together based on things that have worked in the past – but we want to hear yours and to leave space to try something new

• Everything we fund should be chosen through an open, transparent and competitive process – so we fund the best people and projects

• Both sides should make an equivalent contribution

• Build evaluation in from the start
The UK Delivery Partners

Our aim is to build strong, sustainable and systemic links between every part of our research base and innovation ecosystem – and every part of yours
The Academies Programmes

Together, support researchers across the **full disciplinary spectrum**:

- **Newton Advanced Fellowships**: The RS and BA offer fellowships to develop research capacity by linking early to mid-career research group leaders with UK research groups.

- **Newton International Exchanges**: The RS and BA offer shorter exchanges for UK and Thailand researchers to collaborate together.

- **Newton Leadership in Innovation Fellowships Programme**: A programme building innovation and entrepreneurial capacity in the research system.
British Council Programmes

• STEM
Supporting Partner Country for STEM Education policy and curriculum improvement.

• PhD Placements
Funding for Thai PhD students to spend a period of their study in the UK. This will also allow the PhD supervisors to visit the host group for a short time to initiate or strengthen the collaboration with the UK’s universities.

• Professional Development and Engagement
Skills development for researchers and research managers in communication, research management, leadership, technology transfer, etc.

• Researcher Links
Supports Early Career Researchers to develop & build links and exchange knowledge which consist of (i) thematic workshops led by senior researchers and (ii) travel grants for 1-6 month research visits.

• Institutional Links
Initiate new research and innovation partnerships between institutions (including business) in Thailand and the UK. Grants allocated through an open call to cover mobility of staff and students, small equipment, seminar series, training workshops.
Research Council of UK

Full scale research programmes
Longer term larger scale addressing key development challenges

Arts & Humanities Research Council

ESRC Economic & Social Research Council

BBSRC Biodiversity for the Future

EPSRC Engineering and Physical Sciences Research Council

MRC Medical Research Council

Science & Technology Facilities Council

NERC Natural Environment Research Council
The Thailand Delivery Partners

Our aim is to build strong, sustainable and systemic links between every part of our research base and innovation ecosystem – and every part of yours.
<table>
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<tr>
<th>PROGRAMME</th>
<th>OBJECTIVE(S)</th>
<th>RESULTS</th>
<th>DELIVERY PARTNERS</th>
<th>FUND</th>
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<tr>
<td>PhD Programme</td>
<td>To increase a higher education achievement and a student mobility outbound which will improve quantity and quality of scientific education and infrastructure of Thailand</td>
<td>29 Thai scholars to study in the UK for 1 year as part of RGJ PhD scholarships. Cost for supervisor to visit UK is included in the scholarship. (originally 8 months, but with Newton Fund, the length of studying in the UK will be longer) 15 travel grant for PhD supervisors attached with 21 PhD students to visit UK universities up to 2 weeks</td>
<td>Thailand Research Fund British Council</td>
<td>44.00 M THB (£815k)</td>
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<td>Researcher Links Programme: workshops and travel grants</td>
<td>To increase scientific articles published by origin of author which indicates an improved quality of technological infrastructure for welfare To develop a network and linkage between Thailand and UK research institutes through early-career researchers</td>
<td>5 workshops (20 UK researchers and 20 TH researchers per workshop) for sharing research outputs and exchanging knowledge &amp; experiences 19 early career researcher can develop and link between Thai and UK institutions</td>
<td>Thailand Research Fund British Council</td>
<td>18.22 M THB (£337k)</td>
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<td>Professional Development and Engagement Programme: Professional development</td>
<td>To improve a performance of scientific research institutes through skill-up their researchers and research officers in research management</td>
<td>20 Thai mid-career researchers and 15 Thai research officers are trained by courses developed by British Council and UK institutions</td>
<td>Thailand Research Fund British Council</td>
<td>5.20 M THB (£96k)</td>
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<tr>
<td>Professional Development and Engagement Programme: Researcher Connect</td>
<td>To improve a performance of scientific research institutes through skill-up their researchers and research officers in research facilitation and acquisition</td>
<td>180 Thai researchers are trained by courses developed by British Council and UK institutions</td>
<td>Thailand Research Fund British Council</td>
<td>2.08 M THB (£38.5k)</td>
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<tr>
<td>Professional Development and Engagement Programme: pump-priming activity for professional development opportunity</td>
<td>To build partnerships between business/industry and academia in UK and Thailand to promote innovative and sustainable competitiveness in Food &amp; Drink industry in Thailand</td>
<td>UK-Thailand Delegation which consists of 7 researchers and 1 entrepreneur can develop at least one joint translational research or engineering research on “Innovative and Sustainable Industry” for Thailand Food &amp; Drink industry</td>
<td>Thailand Research Fund British Council</td>
<td>2.08 M THB (£38.5k)</td>
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<td>Leadership in Innovation Fellowship Programme</td>
<td>To commercialise research and to ensure success of entrepreneurial companies leads to an acceleration of the country’s economic growth</td>
<td>15 Thai researchers and/or business developers can create a cadre of entrepreneurship and commercialisation of their research</td>
<td>National Science and Technology Development Agency Thailand Research Fund Royal Academy of Engineering</td>
<td>6.05 M THB (£112k)</td>
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Call Opens

- NATIONAL STRATEGIC DISEASES OF THAILAND
  MRC-NSTDA-TRF Joint Health Call
  http://www.mrc.ac.uk/funding/browse/joint-health-research-call-mrc-nstda-trf/

- Wellcome Trust – MRC Newton Fund Collaboration
  Regional Call for South-East Asia
Joint Health Research Call: MRC - NSTDA - TRF

- **Time remaining:** 2m 2w 3d 22h 25m
- **Status:** Open
- **Open date:** 09/03/2015
- **Closing date:** 02/06/2015 16:00
- **Type:** Calls
- **Categories:** Infections and immunity, Molecular and cellular medicine, Global health

http://www.mrc.ac.uk/funding/browse/joint-health-research-call-mrc-nstda-trf/
The Newton Fund is a new UK government initiative intended to strengthen research and innovation partnerships between the UK and emerging knowledge economies.
Next round

• APRIL 2015
  Researcher Links by British Council London

• JUNE 2015
  Advanced Fellowships by the Academies
  - Royal Society for Science and Engineering
  - British Academy for Social Science and Humanity

International Exchange (Mobility) by the Academies
  - Royal Society for Science and Engineering
  - British Academy for Social Science and Humanity

• JULY 2015
  Institutional Links by British Council London
Please Contact

Pijarana Samukkan
Research and Innovation Programme Manager
British Embassy, Bangkok
Tel. +662 305 8280
e-mail: pijarana.samukkan@fco.gov.uk
Uppsala University: Sweden

in Agreement with the Swedish International Development Cooperation Agency (SIDA)

- RGJ/IRN
  - Research Expenses
  - Education Fees
  - Travelling Expenses for Thai Advisor

South & South-East Asian Countries
CLMV, Nepal, Bangladesh

- TICA
  - Accommodation
  - Monthly Allowance

UU, Sweden
Fields of study:

“Basic Sciences”

primarily chemistry, mathematics, and physics, contributing to the development of human resources or addressing pertinent development objectives of relevance to the region.

http://rgj.trf.or.th/ApplicationForm/index_reg.asp

หมดเขตรับสมัครวันที่ 31 มีนาคม 2558
http://rgj.trf.or.th/ApplicationForm/index_reg.asp
หมดเขตรับสมัครวันที่ 31 มีนาคม 2558

Thailand International Development Cooperation Agency;
The Thailand Research Fund, 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
General Information of Advisor

Please fill this form in english.

Title:*  ○ Prof.Dr. ○ Assoc.Prof.Dr. ○ Asst.Prof.Dr. ○ Dr.

Family name*  Ramasoota

Contact Address:  420/6 Ratchwittee Road  Ratchadheewee Bangkok 104

Department:  Center of Excellence for Antibody Research

Faculty:  Tropical Medicine

Number:  420/6

Soi:  

District:  Ratchwittee

State/Province:  Bangkok

Postcode:  10310

Fax:  026435616

Apply for:

Name of program:*  Tropical Medicine

Department:*  Center of Excellence for Antibody Research

Faculty:*  Other

University:*  Mahidol University

Given name(s)*  Pongrama

University:  Mahidol University

Moo:  

Street:  Ratchwittee Road

City:  Bangkok

Country:  Bangkok

Tel:*  023549100

E-mail:*  pongrama.ram@mahidc

Provide a maximum of 5 keywords:

Bio-chemistry, tropical diseases,
NSFC agree to matching fund with TRF;

Joint Research project (3 years) 10 million RMB (53.4 M THB)

Natural Products  Medical Sciences

Biodiversity  Climate Change

2 Network research projects; 3 million RMB (16.02 M THB) / project
Thank you

http://im.trf.or.th