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Razak Faculty of Technology and Informatics
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Tips on Securing International Grant: IEEE, NICT – IVO and ASEAN-India

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International Grant available



KURITA OVERSEAS RESEARCH GRANT 2020

Application Deadline: 15 MAY 2020

Research Areas:

- The Social research area is also related to environmental science and technology
- Examples of appropriate research subjects are water/wastewater treatment, water quality analysis, sustainability of water environment (sanitation), water recycling, agricultural water use, industrial wastewater treatment.

Application Criteria:

- The applicant must reside in Malaysia.
- The applicant must conduct research of priority, unique, or innovative nature in Malaysia (except priority research) and should be research of degree certificate or higher.
- The applicant should be under 40 years of age or hold graduate's diploma less than 1 year after the publication of this program in media program.
- Research programs aimed primarily at generating business profit will not be selected.
- Scientists who are conducting research in Japan should apply for **domestic research grants in Japan** instead of the overseas research program.

Application Procedure:

- Complete application form and send it to KUREF secretariat by email (e-mail link for e-mail address in Good format).
- Proposals from applicants will be reviewed by the Japanese national selection committee.
- After reviewed by the KUREF selection committee the eligible proposal will be approved by the KUREF Board of Directors.
- The President of KUREF will inform of the board's decision to **selected applicants only** by the end of August by letter.
- The name of the selected applicant, the name of future institution and the title of the research program will be posted on KUREF website in September.

Grant Size and Duration:

- Max amount is 400,000 yen per an adopted research.
- From October to September 30th, 2021.

FOR MORE INFORMATION:
<http://www.kuref.or.jp/en>
info@kuref.or.jp
info@kuref.or.jp

Special coaching by KWEF's Malaysia Chairperson

TRANSFORM FUND 2020

Application Deadline: 1 June 2020

Research Areas:

- The application of advanced technology
- Innovative health equity chain management systems
- Development of Low-cost rapid tests and screening methods
- Capacity building interventions

Application Criteria:

- New ideas with Proof of Concept Funding Opportunity: Grants ranging from USD 50,000-100,000
- Capacity Building Science, Technology and Innovation Funding Opportunity: Grants ranging from USD 100,000-150,000
- Scale-up of Innovative Projects Funding Opportunity: Equity Parts (max up to USD 370,000)
- Commercialisation of Technology Funding Opportunity: Equity Parts (max up to USD 1,000,000)

Application Procedure: Sign up and apply at iCDB online portal: <https://www.icdb-engage.org/en/engn>

FUNDING PARTNER:
www.icdb-engage.org/en/engn

THE TOYOTA FOUNDATION INTERNATIONAL GRANT PROGRAM 2020

Application Deadline: 6 June 2020

The "Cultivating Empathy Through Learning from Our Neighbors: Practitioners' Exchange on Common Issues in Asia" is focusing on countries in East and Southeast Asia. The grant program focuses on deepening mutual understanding and knowledge-sharing among people on the ground in target countries who are finding solutions to shared issues.

Application Criteria:

- Transnational, Equal participation of members from 2 or more countries in target areas
- "Cross Sector" Collaboration between sectors such as academia, government, social, nonprofit, etc.
- Mutual Learning: Exchanging knowledge and experience through direct interaction
- Future-adj: Expansion of the potential of future generation through the innovative approach

Project are required to:

- Identify issues and conduct a review by surveying and analyzing the situation in target countries,
- carry out activities aimed at providing solutions to issues,
- produce and disseminate tangible output

Application Criteria:

- Diverse team based in multiple target countries.

Fill in details at:
<https://toyotafund.appspot.com/en/020-N>

MERCK Stimulating Innovative Research Grant

Application Deadline: 31 AUGUST 2020

MERCK is a vibrant team of specialists in Healthcare, Life Science and Performance Materials. MERCK offers a series of research grants to stimulate innovative research in challenging areas of future importance. Grants of 100,000 EUR - 500,000 EUR per year for up to 3 years are available.

Research Areas:

- Drug discovery
- Diagnostic design for cultural need
- Next generation medicine learning
- Pandemic preparedness / fighting new emerging zoonotic infectious diseases

Application Criteria:

The Merck research grants program is open to scientists in all career stages from all over the world who are affiliated with any research-based institution, university or company.

Application Procedure:

- Investigators must first register with MERCK online portal.
- Applicants submit their application for the focus topics containing non-confidential information only. They may apply for more than one focus topic.
- If your application is successful, you will be invited to attend a full proposal and join a 2-day workshop which will take place on November 30-01, 2020 in Darmstadt, Germany.

FOR MORE INFORMATION:
<https://tmg.google.com/dms/en/international-fund/active-grant-by-offer-month>
 Contact us at info@merck.com or merck@utm.my
 (M: 011-88544666, 011-88544667)

GLOBAL INNOVATION FUND

Application Deadline: 31 AUGUST 2020

GIF is a unique hybrid investment fund that supports pioneering, game-changing, and scaling of innovations targeted at improving the lives of the poorest people in developing countries. Through our investments we support successful innovations that collectively open up opportunities and improve the lives of millions of people across the developing world.

Application Criteria:

The fund welcomes innovations that address any major development challenge in any developing country.

- Organization type: anyone may apply including social enterprises, for-profit companies, non-profit organisations, government agencies, international organisations, and researchers in any country.
- Sector: we are open to funding innovations in any sector as long as you can show that your innovation improves the lives of those living on less than \$5 PPP per day, especially less than \$2 PPP per day.
- Location: we fund innovations implemented in developing countries.

PPP = purchasing power parity. PPP prices are different from market prices. Please see the World Bank website for an explanation of these poverty lines, and information on how to calculate incomes in PPP terms.

Application Procedure:

- Fill out an online application form with general information about your request for funding.
- Second, you submit a short description of your innovation, which will be provided after completion of the online form.

SATU 2020 SATU JOINT RESEARCH SCHEME (JRS)

The SATU Joint Research Scheme (SATU JRS) is launched to provide a collaborative platform that facilitates academic research cooperation among SATU member universities.

RESEARCH AREAS:
 Liberal Arts, Management, Sciences, Social Science, Engineering, Electrical Engineering & Computer Science, Planning & Design, Bioscience & Biotechnology, and Medicine in Southeast and South Asia, and multidisciplinary research.

APPLICATION CRITERIA:

- Each project consists of a team of researchers, including PI and Co-PI(s) from SATU member universities.
- Investigators must be working at SATU member universities and have a doctoral degree.

GRANT SIZE:

- JRS projects are funded by individual host universities. Each host university may provide funding to implement a grant project.
- For approved projects, UTM will provide grant to UTM researchers.
- The grant will cover the direct cost of research only.
- The amount of grant disbursed will depend on each project and based on 60:40 (PI: Co-PI) ratio of which the maximum amount is RM 50,000.

Complete the online application form in RMC google sheet before **26 APRIL 2020**

FOR MORE INFORMATION:
<https://tmg.google.com/dms/en/international-fund/active-grant-by-offer-month>
 Contact us at info@merck.com or merck@utm.my
 (M: 011-88544666, 011-88544667)

<https://sites.google.com/utm.my/international-funds/active-grant-by-offer-month>

IEEE Fund

Motto:

Leveraging Technology for Humanity

Why do Humanitarian Activities with IEEE?

Why IEEE rather than another organization?

- ▶ Use one's technical skills
- ▶ Leverage IEEE's global network of members and volunteers
- ▶ Tap into IEEE's resources – training, funding, institutional relationships, etc.
- ▶ Alignment between IEEE's mission and one's own personal ethos



One IEEE – Commitment to Purpose

- ▶ Mission: IEEE's **core purpose** is to foster technological innovation and excellence for the benefit of humanity
- ▶ Vision: IEEE will be essential to the **global** technical community and to technical professionals everywhere, and be universally recognized for the contributions of technology and of technical professionals in improving global conditions.



Commitment to the Mission and Vision from each of you is what empowers and defines the IEEE

How Humanitarian Activities fit into the IEEE Strategic Plan 2020 - 2025

Drive global innovation through broad collaboration and the sharing of knowledge

- Collaborate across and beyond IEEE to increase sustainable development innovation

Enhance public understanding of engineering and technology and pursue standards for their practical application

- Increase understanding of the role of engineering and technology in sustainable development

Be a trusted source of educational services and resources to support life-long learning.

- Provide educational resources through IEEE Learning Network, webinars, and in-person workshops

Provide career and professional development opportunities

- Foster opportunities for valuable, career-relevant experience through SIGHT and HAC projects

Inspire a worldwide audience by building communities that advance technical interests, inform public policy, and expand knowledge for the benefit of humanity.

- Create impact in underserved communities around the world

IEEE's Range of Humanitarian Technical Activities

- ▶ Humanitarian Activities Committee (HAC)
 - Special Interest Group on Humanitarian Technology (SIGHT)
- ▶ IEEE Foundation
- ▶ IEEE Smart Village
- ▶ EPICS in IEEE
- ▶ IEEE Empower a Billion Lives
- ▶ IEEE USA MOVE



IEEE Members Impact on Society

In response to the global COVID-19 pandemic

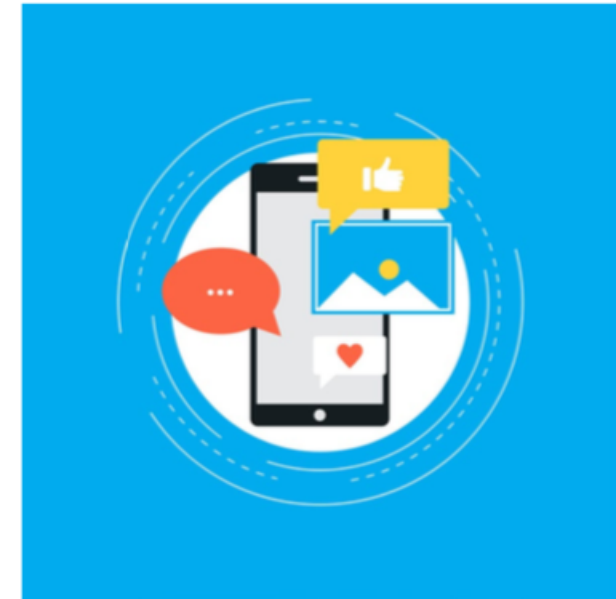
- ▶ Amazing engineering developments and important medical and technological breakthroughs throughout 2020
- ▶ The work of professional engineers, technologists, educators, young professionals, and students preparing for technical careers, will continue to be in high demand and have a great impact
- ▶ Pandemic exposed weaknesses in the global infrastructure that supports citizens around the world



Global Discussion – Good for IEEE!

Social media conversations

- ▶ Overwhelmingly positive conversations on social media regarding IEEE and humanitarian activities **97.3%***
- ▶ Large, global reach
- ▶ **Female Voice [64.5%]** is the majority, which is typically the *opposite* of IEEE-related conversations
- ▶ More young people - **75%** of users are in the **13-34 age group**



Funds available to support members/volunteers activities

- IEEE Foundation
<https://www.ieeefoundation.org/grants>
- EPICS in IEEE
- IEEE Educational Activity Board (EAB)
- IEEE Humanitarian Activity Committee (HAC) – 3 times per year
 - Project (USD20000 – USD 60000)
 - Event (USD5000)
- IEEE Smart Village
(<https://smartvillage.ieee.org>)
- IEEE Special Interest Group on Humanitarian Technology (SIGHT) - 3 times per year
- IEEE Region 10
- Technical Society
 - Distinguished Lecture Program (DLP)
 - SPS Members Driven Initiatives (USD5000)
 - SPS Chapter Driven Initiatives (USD5000)

**IEEE HAC and SIGHT Projects
must relate to UNDP**

**Sustainable Development Goals
(SDGs)**



✓ 17 Goals

✓ 169 Targets

- Incubate new humanitarian technology and sustainable development projects;
- Localize and replicate proven SIGHT projects;
- Put technological skills learned in the classroom or workplace into practice, gaining valuable hands-on experience;
- Partner with local government or NGOs to develop solutions for challenges faced by under-served communities.
- The IEEE SIGHT Projects Subcommittee will review proposals with **budgets between \$1,000 and US\$19,999**. All proposals must be submitted by an [existing SIGHT group](#).
- **Terms of funding: Up to 12 months following the project start date.**
- <https://sight.ieee.org/apply-for-ieee-sight-funding/>

HAC Projects

- **HAC Projects** funding enables IEEE members and organizational units (OUs) to accomplish one or more of the following strategic priorities through projects around the world:
- Scale up proven IEEE SIGHT or other IEEE humanitarian technology and sustainable development projects;
- Provide IEEE's technical expertise to well-vetted external humanitarian/sustainable development organizations for a specific project;
- Collaborate across OUs and/or IEEE programs to undertake major humanitarian technology and sustainable development projects.
- Fund: USD20,000 – USD60,000.
- <https://hac.ieee.org/funding-opportunities/hac-projects/>

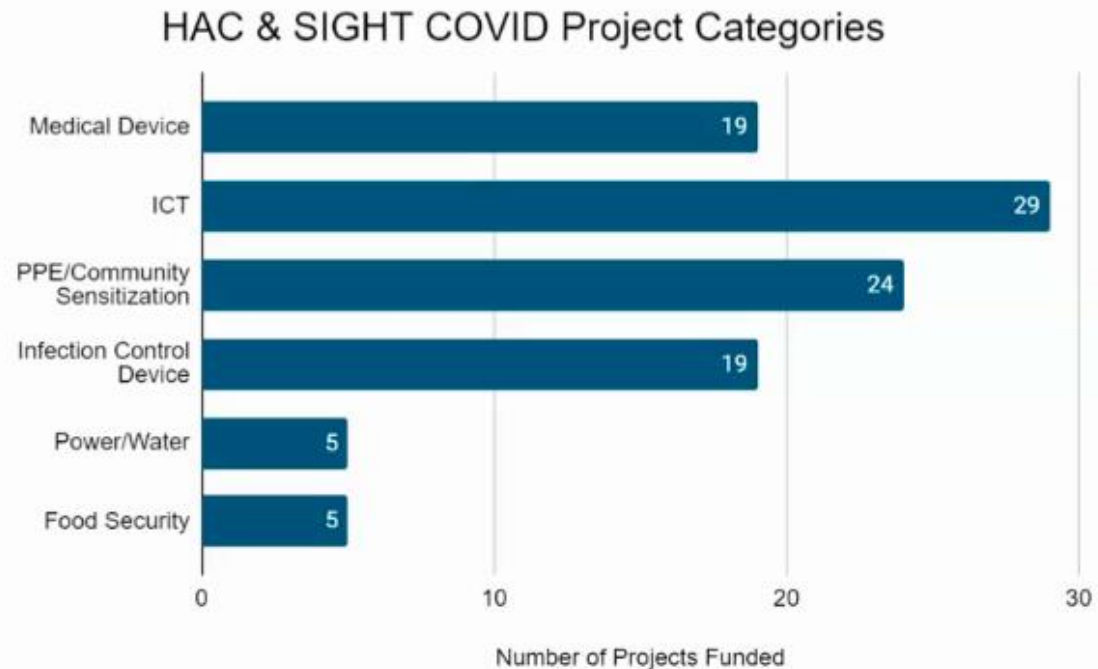
HAC Events

- **HAC Events** funding enables IEEE members and organizational units (OUs) to accomplish one or more of the following strategic priorities through conferences and events around the world:
- Raise awareness of humanitarian technology and sustainable development and how technically trained people can contribute;
- Provide training to increase the capacity of IEEE members and OUs to successfully undertake humanitarian technology and sustainable development activities;
- Showcase the results and share lessons learned of IEEE humanitarian technology and sustainable development projects;
- Develop relationships with the greater sustainable development community outside IEEE.
- Up to USD 5000 – open to all members
- Up to USD 15,000 by invitation only
- <https://hac.ieee.org/funding-opportunities/hac-events/>

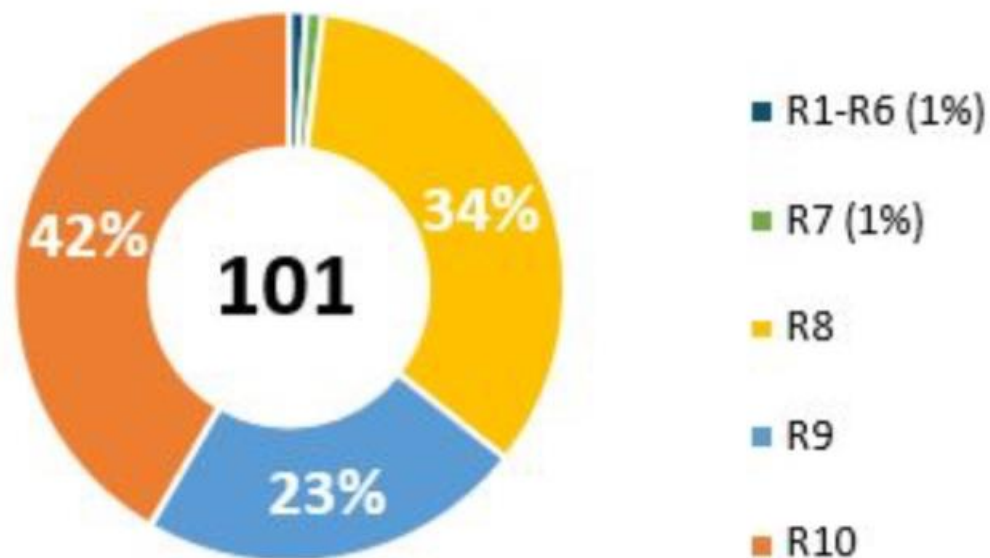
Now: Development of Communities of Practice (CoPs)

Bringing together projects by thematic area to increase project impact, member engagement and professional development – **All CoPs are currently underway**

- Led by experienced IEEE volunteers
- Increase information sharing between related projects to speed learning curve
- Provide guidance and mentoring, when needed
- Develop and track common indicators
- Collect lessons learned to enable future replication and scaling



The Results: A Total of 101 Proposals Funded at \$438,438



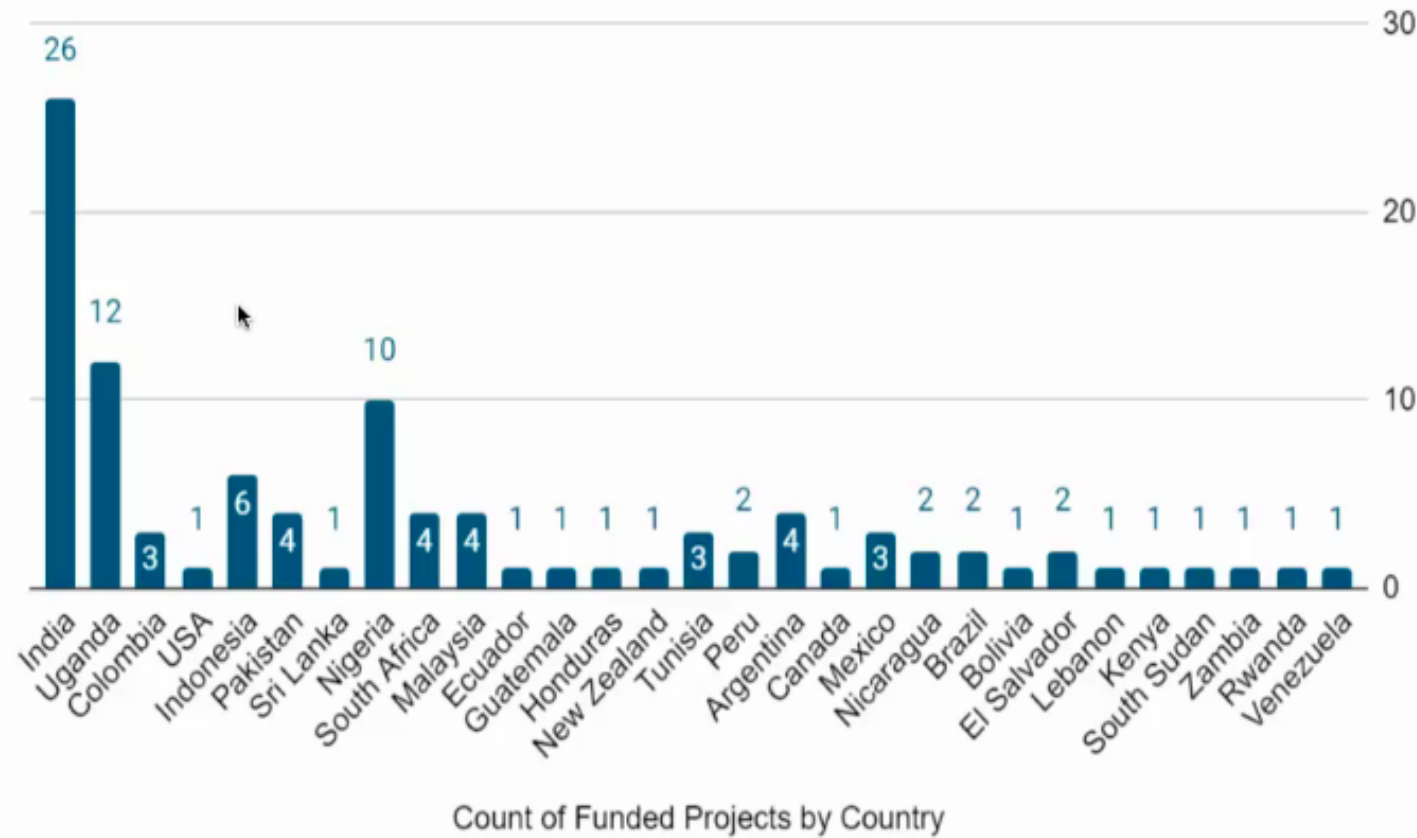
Two projects funded thanks to the generosity of donors to the IEEE Foundation COVID-19 Response Fund.





The Results: 101 Approved Projects in 29 Countries

Locations of HAC & SIGHT COVID Funded Projects



List of Malaysia Members Recipients of IEEE HAC/SIGHTS Covid-19 Project

Projects Title	Funding Amount
On-Site Communication Standard Operating Procedure for Construction Project during COVID-19	USD 5,000
Dental Aerosol Containment Equipment for the Prevention of COVID-19 in Malaysia	USD 4,398
Designing an IoT based Disinfectant Gate for Analyzing the Ro of the Novel Coronavirus	USD 1,469

Past IEEE HAC/SIGHT Projects by Malaysia Members

Project Title	Funded by	Funding Amount	Year Awarded
Free Energy from Calories to Electricity	SIGHT	USD 4,000	2019
Hydraulic Ram Pump for Clean Water in Rural Area	HAC	USD21,700	2018

HAC/SIGHT Educational Curriculum in ILN

- Developed 6 modules that are now in ILN:
 - Module 01: [Introduction to Sustainable Development](#)
 - Module 02: [Multidisciplinary Perspectives in Humanitarian and Sustainable Development Activities](#)
 - Module 03: [Community Engagement in Sustainable Development Projects](#)
 - Module 04: [Humanitarian Technology for Sustainable Development](#)
 - Module 05: [Sustainable Project Design](#)
 - Module 06: [Project Assessment, Monitoring and Evaluation](#)
-
- **289** unique users in 2020
 - HAC Education Forum in Facebook provided extra resources and community in early COVID days

ICT Virtual Organization of ASEAN Institutes and National Institute of Information and Communications Technology (NICT-IVO)

ASEAN IVO Forum :

ICT Virtual Organization of ASEAN Institutes and National Institute of Information and Communications Technology (NICT-IVO)

- <https://naivo.org/>
- [https://www.nict.go.jp/en/asean_ivo/2020 Call for Presentations.html](https://www.nict.go.jp/en/asean_ivo/2020_Call_for_Presentations.html)
- 2-3 ASEAN countries together with Japan collaborator
- Grant amount: USD40,000 per year
- Research Period: 2 years and can be extended another year (rare)
- Frequency – once a year
- Abstract Submission Deadline – Oct 2020
- Submission must be from members institute
- List of Institutes:
[https://www.nict.go.jp/en/asean_ivo/2020 Forum Program.html](https://www.nict.go.jp/en/asean_ivo/2020_Forum_Program.html)
- [List of NICT IVO members.pdf](#)

ASEAN IVO Forum 2020 - Topics

- **ICT for food**

As food is a common need for all people, ensuring food security (i.e. food availability and regional self-sufficiency) is a key concern for every country. The focus of this topic is for ICT applications providing specific solutions to food security issues in the ASEAN region, specifically the development of applications and integrated systems for R&D in all fields addressing food availability, from environment and agriculture through the supply chain to consumption and waste management.

- **ICT for Environment Protection and Disaster Prevention**

As the population grows and becomes more urbanized, there has been a massive increase in material needs and environmental impact as well as demand for digital infrastructure to support people's lifestyles and communication, so that environment monitoring and protection has become an important issue to human society. Today, natural disasters are occurring more frequently and with increasing intensity. As well as disaster prevention and response, environment monitoring is key for stable infrastructure. This topic focuses not only on technologies, but also applications and integrated systems for R&D.

- **ICT for a Secure and Smart Community**

With the internationalization and regionalization of ASEAN, we are facing many difficulties, such as cultural differences and social adaptation. Additionally, with rapid urbanization, cities face a variety of risks, concerns, and problems. The unprecedented rate of urban growth creates an urgency in finding smarter ways to manage the accompanying challenges. This topic is a challenging one which not only focuses on technologies, but also applications and integrated systems, including development of useable applications in a real-life context.

- **ICT for Health and Welfare**

Population growth and environmental destruction is causing an ever-increasing list of global health crises. From aging societies to global pandemics, humanity needs to develop new ways to tackle global health problems. Recent disease outbreaks make clear the need to develop new technologies, integrated systems and applications to prevent pandemics and fight infectious diseases like COVID-19 and Ebola. This is particularly relevant in South-East Asia where many countries are home to at least three diseases that are classified as Neglected Tropical Diseases, meaning prevention and treatment are poorly implemented and underfunded, like dengue fever. Care for the elderly and coping with aging societies is also a growing problem. R&D for new systems and technologies to support older people and relieve the burden of caring for them is essential to maintain societal equilibrium.

- **ICT related Technologies and Applications**

Proposals in any ICT-related topic are welcome if sufficient relevance to the above themes can be demonstrated.

AUN/SEED-Net

JICA Technical Cooperation Project for ASEAN University Network/Southeast Asia Engineering Education Development Network (JICA Project for AUN/SEED-Net)

- JICA Project for AUN/SEED-Net was established in 2001 as a sub-network under the auspices of ASEAN University Network (AUN). The networking conducts various academic activities with its aim that Southeast Asia and Japan will be developed sustainably through the development of innovative and highly skilled human resources in the engineering field. The Government of Japan and Japan International Cooperation Agency (JICA) has decided to implement Phase IV cooperation for AUN/SEED-Net in collaboration with ASEAN Member Governments, ASEAN Member Institutions, ASEAN Secretariat and AUN Secretariat with support from Japanese Universities.,

Recent Call in 2020

JICA Project for AUN/SEED-Net is delighted to officially announce the Call for Applications for newly launched “**Special Program for Research against COVID-19 (SPRAC)**”.

All applications must be submitted online via <https://seed-net.org/programs/sprac-member-institutions/>

- **Application Deadline:** August 31, 2020 by 23:59 (GMT+7)
- **Eligibility of Principal Investigator:** Full time faculty member
- **Research Field and Scope:** Topic in any engineering fields and addressing COVID-19
- **Funding Amount:** Research grant up to USD 50,000
- **Funding Period:** Approximately 13 months
- **Announcement of successful applications:** By the beginning of October 2020.

For more information, visit: <https://seed-net.org/>

ASEAN-India Science, Technology & Innovation Cooperation

ASEAN-India Science, Technology & Innovation Cooperation

- <https://www.aistic.gov.in/ASEAN/HomePage>
- ASEAN-India Collaborative R&D Scheme
- ASEAN-India Research Training Fellowship (AI-RTF)
- Frequency – once a year (submission deadline 31st Oct 2020)

- i. Brunei
- ii. Cambodia
- iii. Indonesia
- iv. Lao PDR
- v. Malaysia
- vi. Myanmar
- vii. Philippines
- viii. Singapore
- ix. Thailand
- x. Vietnam

The objective of ASEAN-India Collaborative Scheme

- Encourage and promote cooperation in science, technology and innovation, including through joint research activity, and development on cross-sectoral areas such as health, communicable and emerging infectious diseases, environmental management, climate change adaptation and mitigation measures, agricultural technologies, alternative energy, biodiversity, food processing, advanced materials for development of value-added products, and space technology and applications;
- Encourage and promote cooperation in biotechnology including through capacity building and joint research and development for mutual benefit;
- Undertake activities and develop program / projects under the ASEAN-India Science and Technology Development Fund;

Priority research areas

The research areas should be ASEAN centric and be aligned with the ASEAN Plan of Action on Science, Technology and Innovation 2016-2025 (**copy attached at [Appendix-I](#)**)

The priority areas for present call are as below-

- Bio-medical devices related to COVID-19 pandemic
- Nano-Technology and Advance Materials
- Cyber physical systems, Artificial Intelligence and ICT

Goals

To intensify interaction and scientific cooperation between Indian and ASEAN scientists / institutions

- To connect existing but separately funded research projects in India and ASEAN MS
- To enhance academic training and development of young scholars

Project duration

Up to 24 months (No extension with or without additional cost beyond 24 months of the project shall be considered)



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