Human Resource Development and Education in Thailand

Upgrade Research and Development Capacity for Thailand and ASEAN

Upgrade and Develop Industrial Human Resources

Thailand's Sustainable Industrial and Economic Growth
JICA supports Thailand’s effort to upgrade the R&D (Research and Development) capacity of higher education institutes, the main organizations to conduct research and explore new knowledge that leads to innovation.

**ASEAN University Network/Southeast Asia Engineering Education Development Network**

AUN/SEED-Net was established in 2001 and consists of 26 Member Universities from 10 ASEAN countries with the support of 14 leading Japanese Universities. The network 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, supported by ASEAN Governments and the Government of Japan through JICA.

**JICA Support**
- To promote human resources development and to improve research and educational capacities of faculty staff
- To enhance linkage and collaborative research between AUN/SEED and Japan

**Project Purpose & Expected Outputs**

- A region-wide system for advanced research and education will be established by Member Universities in collaboration with Japanese Supporting Universities
- Capacity development of academic staff in Member Universities
- Addressing common regional issues through research activities
- Academic networking among Member Universities in ASEAN and Japan
- Linkage between universities and industrial sectors

**Long-term Academic Support**

- **Graduate Degree Program**
- **Research Program**
- **Mobility, Networking and Knowledge Sharing**
- **University-Industry Linkage**

**JICA Innovative Asia Program**

- **Aim**
  - To enhance the circulation of competent human resources among Japan and Asian countries and to promote innovation in the whole of Asia.

**Fields of Study**

- Information Technology (IT), Internet of Things (IoT), Artificial Intelligence, Biotechnology, etc.

**Human Resource Development for Industrial Needs**

Thailand realizes the necessity to maintain sustainable economic growth by laying out its goal of “Thailand 4.0”. JICA supports this new industry vision by developing skilled technicians and engineers, the core human resource needed for industry.

**Strengthening Capacity Building of the Automotive Human Resource Development Academy (AHRAA)**

The Automotive Human Resource Development Academy (AHRAA) was established by the Ministry of Labour in 2015 in response to the strong need for skilled workers and managerial workers. Its aim is to raise the level of master trainers in automotive and strengthen the connectivity between vocational education and public/private sectors. AHRAA is making an effort to establish the Skill Standard Evaluation System (Test) for sequence control work, an indispensable skill for workers in the manufacturing sector.

JICA expert has been dispatched to AHRAA to provide advice on setting up and effecting the evaluation system with close collaboration with Japanese companies. Once the evaluation system has been established, it is expected to be endorsed as a national, certifiable skill qualification.

**King Mongkut’s Institute of Technology Ladkrabang (KMITL)**

KMITL has been a symbol of cooperation between Thailand and Japan since our 1960 launch of Technical Cooperation for the Nonthaburi Telecommunications Training Center, the former name of KMITL. Since then, Japan has continuously provided timely assistance for KMITL in its successive development stages, through technical cooperation, grant aid, and dispatch of Japanese experts. After five decades, the small institute has grown into a top level engineering university in Thailand, which supplies core engineers to Thai industry. KMITL has also been taking part in the AUN/SEED-Net Project as a host university, and received 108 students in the engineering field so far.

**Industrial Human Resource Development Yen Loan (pipeline project)**

Development of engineers/technicians who are expected to lead Thailand 4.0.

**Issues**
- Shortage of qualified technical staff in production
- Shortage of engineers who can create innovation
- Shortage of middle level and senior engineers

**Expected Outcomes from the project**

- Expected completion by 2025.
- 550 Technical Schools
- 10,000 engineers
- Direct Beneficiaries: 4,000 students / teachers

**Expected Outcomes after the project**

- 520,000 engineers
- New Generation Automotive Development of Advanced Products and Areas of Super Quality

**Message from Mr. Hiroto TANAKA, Chief Representative of JICA Thailand Office**

"I wish to express my deepest appreciation for the cooperation with KMITL. Human resource development is a key component for realizing sustainable economic and industrial development. Japan is Thailand’s best development partner to share its experience, knowledge and how to collaborate for realizing Thailand 4.0 together without falling into the Middle Income Trap."
JICA Thailand Office was established in 1974 and currently implements cooperation projects with the Government of Thailand through 3 principal schemes, namely Technical Cooperation, ODA Loans, and Grant Aid, both at the bilateral level (Thailand-Japan) and at the regional level (Southeast Asia-Japan).

**Priority Areas of Cooperation/Partnership**

- Sustainable development of economy and coping with maturing society [Enhancement of competitiveness, problem solving in environment and climate change issues, aging society and social vulnerabilities, and etc.]
- Coping with common issues in ASEAN countries [Strengthen ASEAN connectivity and mitigate disparity among ASEAN/Mekong countries]
- Promotion of cooperation towards countries outside the ASEAN region [South-South cooperation in collaboration with Thailand]

**Japan’s Bilateral Cooperation through JICA in Thailand**

**Scheme 1 Technical Cooperation**

- 162 Projects (incl. 10 SATREPS Projects)
- 216 Development Studies
- 10,416 JICA Experts & 15,379 Study Team Members
- 682 Japan Overseas Cooperation Volunteers
- 313 Senior Volunteers
- 31,114 Trainees for JICA Trainings

(226.63 billion yen, incl. provision of equipment of 39 billion yen)

**Scheme 2 ODA Loans**

- 244 Projects

(2,369.46 billion yen)

**Scheme 3 Grant Aid**

- 2 Projects for Disaster Prevention and Reconstruction

(8.03 billion yen)

**History of JICA’s Cooperation with KMITL**

1960: Started Cooperation for NITC*

1974: Grant Aid for Library, Gymnasium, Laboratory, etc.

1978: Technical Cooperation for the Establishment of Faculty of Engineering

1997: Technical Cooperation for RECCTI**

2008: AUN/SEED-Net

*NTTC: Nonthaburi Telecommunications Training Center

**RECCTI: Research Center for Communications and Information Technology

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