School of Environment, Resources and Development

Environmental Engineering and Management

The Asian Institute of Technology (AIT) is an independent, international autonomous institution based in Thailand, promotes technological change and sustainable development in the Asian-Pacific region through higher education, research and outreach. Established in 1959, AIT has become a leading regional institution and is actively working with public and private sector partners throughout the region and with some of the top universities in the world.

School of Environment, Resources and Development (SERD)
A key strength of AIT is its ability to respond to regional needs by mobilizing and enhancing capabilities for socially, economically and environmentally development through SERD. The School emphasizes on thematic areas including Bio-resources, Energy and Environment, Development Studies, and Interdisciplinary that integrates technology and natural and social science knowledge in its academic, research and training activities.

ENVIRONMENTAL ENGINEERING AND MANAGEMENT (EEM)
Environmental Engineering and Management (EEM) at AIT began in 1964 with the need for sanitary engineering to address the problems of providing adequate water supplies and sanitation facilities. The overall program looks for solutions to environmental problems including wastewater treatment and disposal systems; air pollution engineering and management; solid and hazardous wastes; waste minimization and life cycle assessment; environmental impact assessment and management; and environmental toxicology. The three major focal areas are Environmental Technology and Management (ETM); Environmental Toxicology, Technology and Management (ETT&M); and Water and Wastewater Engineering (WWE). The EEM has produced over 1,100 master and 90 PhD graduates from 40 countries in Asia and beyond.

ETM emphasizes a systems approach to managing the environment, including the interrelated roles of industry and government agencies. Some of the subjects covered in the specialization of air pollution, solid wastes, industrial pollution control, hazardous wastes control and minimization, environmental impact assessment and waste audits.

ETT&M is a multidisciplinary inter-university program (Chulabhorn Research Institute, Mahidol University and AIT) with assistance from a team of international experts. This program is a combination of toxicology and other related health sciences, biotechnology and environmental engineering.

WWE responds to the need to produce engineers who have specialized in the planning, design, operation and management of water supply, wastewater treatment, and disposal systems. Specializations include water supply and sewerage system engineering, water quality management, water and wastewater treatment systems, environmental sanitation systems, groundwater contamination, waste recycling and resource recovery, natural and ecological treatment systems.

Coursework and Research
The curriculum offered by the EEM program includes regular courses in:

- Environmental Chemistry and Laboratory
- Wastewater Treatment
- Drinking Water Treatment
- Waste Reduction and Recycling
- Air Pollution Engineering and Management
- Solid Waste Management
- Environmental Quality Management
- Environmental Health and Sanitation
- Integrated Life Science
- Principles of Toxicology
- Health, Development and Environment
- Membrane Technology in Water and Wastewater Treatment
- Design of Water Supply and Wastewater Systems
- Applied Microbiology and Laboratory
- Advanced Processes for Wastewater Treatment, Reuse and Recycle
- Toxic Organics and Trace Metals in Ecosystem
- Environmental Impact Assessment
- Industrial Waste Abatement and Management
- Water Quality Management
- Air Pollution Modeling and Applications
- Hazardous Waste Technology and Management
- Design of Air Pollution Control Systems
- Principles of Cleaner Production
- Sampling Design for Environmental Monitoring
- Environmental Toxicology
- Health/Environmental Risk and Impact Assessment
- Environmental Microbiology
- Molecular Biology of Environmental Stress
- Bioengineering and Environmental Health

AIT’s multicultural environment
- 2,300+ Students from 50+ Countries/Territories
- 18,000+ Alumni from 70+ Countries/Territories
- 28,000 Short-term Trainees from 70+ Countries/Territories
- 120 World Class Faculty from 20+ Countries
- 33 board of trustee members from 19 countries

Our approach to learning
- Professionalism across Disciplines
- Individualized Academic Advising
- Flexible Curricula
- Real-Life Development Problems and Industrial Practice
- Small Class Sizes in Multicultural Environment
- Global Network of Colleagues
- Opportunity for Student Exchange and Double-Degree Programs
Career for Graduates
Graduates have an excellent opportunity for employment in private as well as government and international agencies, university teaching and research organizations involved in Environmental Technology and Management, Environmental Toxicology, Technology and Management and Wastewater Treatment and Management. Moreover, the graduates could develop their career as consultants for abatement of air, water, and soil pollution.

Financial Support
AIT offers a limited number of financial awards in the form of scholarship i.e. Queen Scholarship, SIDA NORAD, ASEAN Foundation, Japanese Scholarships, etc. and fellowships for the master's and doctoral programs, on the highly competitive basis, and for those who can show proof of financial need during their study at AIT.

How to Apply

Master Degree Program
To be eligible for admission to the degree and non-degree programs, a candidate should:

- Hold a bachelor's degree (normally from a four-year program) or its equivalent in an appropriate Engineering or related field as specified by the fields or area of study
- Hold the degree from an institution of recognized standing
- Have undergraduate grades significantly above average
- Have satisfactory physical and mental health to pursue academic studies at the graduate level
- Possess an acceptable level of English language proficiency.

Doctoral Degree Program
To be eligible for admission to the regular Doctoral degree program, an applicant must:

- Have strong academic records (both undergraduate and graduate) and normally hold a four-year bachelor’s degree
- Have a Master’s degree, preferably with a combination of course and thesis work
- Submit a brief outline of dissertation research proposal including the required research facilities, if necessary.

Documents to Submit (Master)
- AIT application form
- Two letters of recommendation
- An official transcript of undergraduate degree
- TOEFL (internet-based: 61; computer-based: 173; paper-based: 500) / IELTS (4.5) or AIT-English Test (4.5).

Documents to Submit (Doctoral)
- AIT application form
- Two letters of recommendation
- An official transcript of both undergraduate and graduate degrees
- TOEFL (internet-based: 76; computer-based: 200; paper-based: 537) / IELTS (5.5) or AIT-English Test (5.5).
- Submit a brief outline of dissertation research proposal including the required research facilities, if necessary.

Application & Scholarship Deadlines
- January Semester: November 1st
- August Semester: May 1st

Download application materials: http://www.ait.asia/admissions/forms.html or apply online: http://www.ait.asia/applyoneline/

Cost Per Program*

<table>
<thead>
<tr>
<th>Study Cost</th>
<th>Doctoral Program</th>
<th>Master’s Program</th>
<th>Diploma</th>
<th>Certificate</th>
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</thead>
<tbody>
<tr>
<td>Registration Fee @20,000 Baht per Semester</td>
<td>120,000 Baht</td>
<td>80,000 Baht</td>
<td>40,000 Baht</td>
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<td>Tuition Fee @14,000 Baht per Credit</td>
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<td>672,000 Baht</td>
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<td>TOTAL</td>
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<td>752,000 Baht</td>
<td>376,000 Baht</td>
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*Excluding living cost, which varies from 8,500-11,500 Baht/month depending upon student life style

For details, please contact:
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School of Environment, Resources and Development
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http://www.serd.ait.ac.th/eem/

Submission of completed application forms with supporting documents to:
Admissions and Scholarships Unit
Asian Institute of Technology
P.O. Box 4, Klong Luang, Pathumthani 12120, Thailand
E-mail: admissions@ait.ac.th
Phone: (66) 2524-5031-33, Fax: (66) 2524-6326