ENTRY REQUIREMENTS

**Academic**
You need ALL of the following to enter PME-GEM program.
- Bachelor’s Degree or equivalent in:
  - Civil Engineering,
  - Geotechnical Engineering,
  - Mechanical Engineering,
  - Industrial Engineering,
  - Other related engineering fields.
- At least 2 years of working experience in infrastructure development.
- A pass in an interview with AIT program coordinators.

**English**
All subjects are conducted in English. Hence non-native English speaking applicants must provide evidence of ONE of the following:
- IELTS 5.0
- TOEFL
  - TOEFL PBT 500
  - TOEFL CBT 173
  - TOEFL iBT 61
- AIT EET 5.0 (AIT Entry English Test)

COST STUDY: please contact program staff for the details

CONTACT INFORMATION

MAIL TO US AT: pme-gem@aitcv.ac.vn

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Asian Institute of Technology in Vietnam (AITVN)
B3 Building, University of Transportation & Communication, Lang Thuong, Dong Da, Hanoi

MORE INFORMATION ON PME-GEM ACTIVITIES CAN ALSO BE SEEN AT: www.pme-gem.blogspot.com
Dear Valued Candidates,

The PME-GEM into Vietnam is aimed to provide you with advanced knowledge in an international education environment. We want every of you to be developed into strong, reflective, and responsive individual who is confidently adaptable to the challenges and opportunities of this rapidly changing world.

PME-GEM Program Coordinator
Dr. Pham Huy Giao

WHY AIT?
Asian Institute of Technology (AIT):
- Is a unique and truly international;
- Provides students with a pervasive English environment;
- Offers globally recognized advanced degrees in Engineering and Technology in response to Asia’s needs since 1959;
- Offers practical, industry-oriented programs with strong research foundations.

PROGAMME STRUCTURE
Semester 1: Sep–Dec or Jan–Apr (12 Credits)
1. Practical Soil Engineering
2. Foundation Engineering and Design
3. Engineering Geology
4. Instrumentation and Advanced Soil Testing

Semester 2: Jan–Apr or May–Aug (12 Credits)
5. Ground Improvement Techniques
6. Underground Excavation and Tunneling
7. Geotechnical Investigation and Exploration
8. Risk Management for Infrastructure Development and Planning

Customized Courses
9. Geotechnical Engineering for Coastal Areas
10. Urban Railway Geomining and Management

Semester 3: Jun–Sept or Sept–Dec (9 Credits)
Research Study
- Student can choose to do a 2-month internship at home companies or attend and overseas trip to visit infrastructure projects in Japan, Korea or Europe, and SE Asia
- Topic of research Study are strongly recommended to be relevant to the students’ companies activities.
- Good research can be presented in an international conference or published in an international journal.

ABOUT PME-GEM
The Professional Master Program in Geotechnical Engineering and Management (PME-GEM) emphasizes on the solving of geotechnical problems related to the fast infrastructure development in Vietnam. The participants will be provided opportunities to apply the-up-to-date knowledge in geotechnical engineering for construction projects, including site investigation, geo-exploration, soil characterization, soil improvement, tunneling in soft ground, foundation design, computer-aided analysis, risk management, and mitigation of geo-hazards such as land subsidence, land slide, coastal erosion, flooding and earthquakes.

NOTABLE FEATURES:
- An innovative teaching method delivered by a team of well-known professors from AIT and its partner universities plus highly qualified experts from prominent geotechnical companies in the world.
- A unique international program with a customized and intensive curriculum, designed to accelerate graduate education for the senior and medium-level staffs, who cannot leave the job due to their busy workloads.
- Flexible study options, including all options from Postgraduate Certificate (12 credits), Diploma (24 credits) to Professional Master Degree (33 credits). Credits earned from Certificate and Diploma studies can be accumulated and converted for a continuing Professional Master study. Duration of this flexible program can be extended to four years.
- Research trips at AIT in Bangkok and/or other countries in the region.

FOCUS OF THE PROGRAM
- Advanced site characterization for infrastructure projects.
- Engineered soils and rocks including modern techniques for underground space development, tunneling, ground improvement.
- Mitigation of geotechnical hazards related to infrastructure development (land subsidence, slope stability, coastal and river bank erosion, etc.)
- Risk management for infrastructure projects.

PME-GEM FACULTY MEMBERS

PHAM HUY GIAO
Associate Professor and Coordinator, PME-GEM program
Geotechnical and Earth Resources Engineering, AIT;
MSc, Bucharest University (Romania); M.Eng & D.Eng, AIT
Engineering Geology & Applied Geophysics, Subsurface Computation, Groundwater & Land subsidence Analysis

NOOPADOL PHIEU-WIEI
Associate Professor,
School of Engineering and Technology, AIT;
MSc, PhD, University of Illinois at Urbana-Champaign (USA).
Rock Mechanics, Underground excavation and Tunneling, Engineering and Applied Geology

KO CHIEH CHAO
Associate Professor in Geotechnical & Earth Resources Engineering
School of Engineering and Technology, AIT;
MSc, PhD, Colorado State University (USA).
Soil mechanics and testing, Expansive soils, Ground Improvement and Geosynthetics.

DENNIS T. BERGADO
Adjunct Faculty
Professor Emeritus of Geotechnical and Earth Engineering, AIT
M. Eng, Asian Institute of Technology; Ph. D., Utah State University (USA).
Soil mechanics, Ground improvement techniques, geotechnical engineering.

PHAM VAN LONG
Adjunct Faculty
General Director of Vina Mekong Engineering, HCMC
M.Eng & D.Eng, AIT
Soil engineering and design. Ground Improvement and Geosynthetics. Soil structure

YOICH WATABE
Adjunct Faculty
Professor, Division of Field Engineering for the Environment, Graduate School of Engineering, Hokkaido University, Japan.
D.Eng, Tokyo Institute of Technology (Japan).
Geotechnical Testing and Advanced Site Investigation

TIAN HO SEAH
Adjunct Faculty
Geotechnical Consultant, MAA Consulting Group, Thailand
PhD, MIT (USA)
Laboratory and Field Testing, Foundation Engineering

SUTTISAK SORALUMP
Adjunct Faculty
Head, Department of Civil Engineering, Kasetsart University, PhD, Utah State Univ. (USA); M.Eng., AIT; B.Eng Chulalongkorn Univ.
Soil Dynamics, Earthquake, Slope stability and landslides.

HIROYASU OHTSUKA
Adjunct Faculty
Professor, Department of Urban Management, Graduate School of Engineering, Kyoto University, Japan
D.Eng, Kyoto University (Japan)
Rock Engineering, Risk Assessment Management

YUSUKE HONJO
Adjunct Faculty
Professor, Department of Civil Engineering, Gifu University, Japan
M.Eng, Nagoya University, Ph.D, MIT (USA)
Geotechnical Engineering, Probabilistic and Risk Analysis, Numerical Computation in Geomechanics.