



The Biopharmaceutical Engineering Practice School (BioPhEPS) Program at King Mongkut's University of Technology Thonburi (KMUTT) is a two-year international program leading to a Master's degree in Chemical Engineering.



International Curriculum

The BioPhEPS curriculum consists of spending the first year on campus doing graduate coursework, and spending the second year undertaking one semester of individual thesis project and one semester of practical training.

Research Areas

Research plays a vital role in the training of graduate students. ChEPS offers research topics in many areas including:

- Biochemical engineering
- Drug delivery
- Bioinformatics
- Systems biology
- Biosensors
- Bioinstrumentation

Furthermore, the BioPhEPS program is currently working closely with some overseas institutions in order to offer its students an opportunity to conduct their thesis projects overseas.

This intensive yet practical program was developed in collaboration with *National Science Technology and Innovation Office (STI)*, which is tasked with producing policies and plans to promote science, technology, and innovation in Thailand.



The practice school fosters:

- Organization and planning
- Leadership and teamwork
- Engineering judgment
- English Communication
- Engineering economics and management
- Presentation skill

Coursework includes:

- Cell Biology
- Biochemical Engineering
- Intermediate Transport Phenomena
- Chemical Reaction Engineering
- Physical Chemistry of Pharmaceutics
- Mathematical Analysis for Chemical Engineering
- Introduction to Development and Manufacturing of Biopharmaceutics
- Biopharmaceutical Industry
- Good Manufacturing Practice in Pharmaceutical Industry
- Pharmaceutical Manufacturing Design Problem
- Graduate Seminar

Knowledge Through Practice

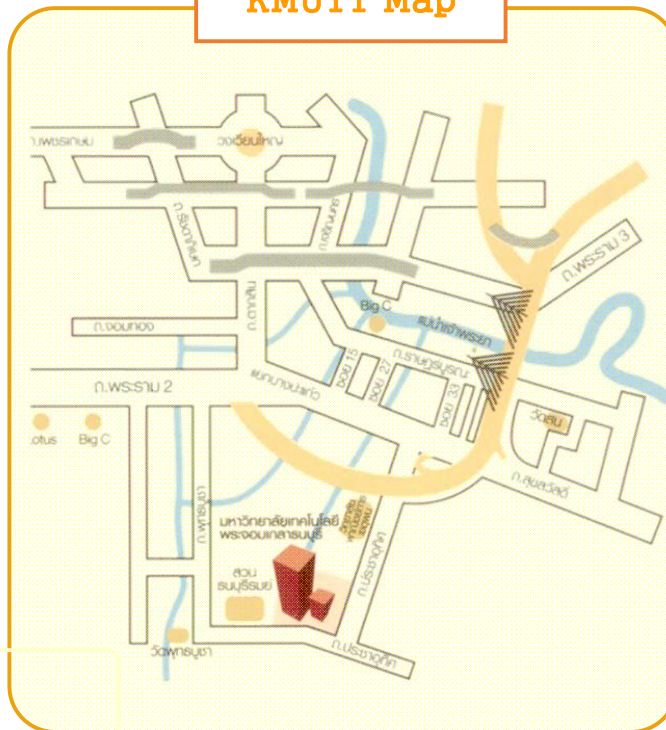
One aspect that distinguishes the practice school from other co-op programs is the presence of a full-time site director at each work placement. The site director is a qualified KMUTT faculty with a PhD degree. Practicing students work closely with the host company's engineers and the site director to identify and solve real-life problems. In addition, BioPhEPS requires its faculty members to regularly visit the placements to attend presentations and provide feedback to students.



Practice Sites

Present practice sites of BioPhEPS include:

- Science Bioscience Co., Ltd.
- National Biopharmaceutical Facility (NBF)
at KMUTT's Bangkhuntien Campus



Biopharmaceutical

Engineering

Practice

Biopharmaceutical Engineering Practice School

Scholarships

Scholarships are available to
qualified candidates.



For more information, contact

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School

