



Republic of the Philippines
OFFICE OF THE PRESIDENT
COMMISSION ON HIGHER EDUCATION



Reference No. 2022-2-893

MEMORANDUM FROM THE OFFICE OF THE CHAIRPERSON

**TO : PRESIDENTS/HEADS OF HIGHER EDUCATION INSTITUTIONS
CHED CENTRAL AND REGIONAL OFFICE
DIRECTORS/OFFICERS-IN-CHARGE**

**SUBJECT : CALL FOR APPLICATIONS: ARTIFICIAL INTELLIGENCE AND
COMPUTER ENGINEERING (AiCE) SCHOLARSHIP 2022**

DATE : 23 February 2022

The Commission on Higher Education hereby informs interested parties of the Artificial Intelligence and Computer Engineering (AiCE) Scholarship 2022 offered by the Carnegie Mellon University - King Mongkut Institute of Technology (CMKL), Thailand.

AiCE scholarship is open to students who wish to pursue a Bachelor of Engineering in Artificial Intelligence and Computer Engineering. Successful candidates awarded with this scholarship will receive tuition fee for 6-8 semesters (Up to 2 million THB per scholarship).

Attached for reference is the brochure which contains details regarding the scholarship program. Interested applicants may likewise visit their website <https://www.cmkl.ac.th/scholarship/aice-scholarships-2022> for the online application.

Deadline of application is on 08 April 2022.

Dissemination of this Memorandum is desired.


J. PROSPERO E. DE VERA III, DPA
Chairman



AI +
COMPUTER
ENGINEERING

Bachelor of Engineering in

Artificial Intelligence & Computer Engineering

An Engineering Specialization Program

Thailand's first integrated degree in the emergent
field of artificial intelligence engineering to enabling
AI applications for real-world problems



Carnegie Mellon University – CMKL | Thailand

Carnegie Mellon University



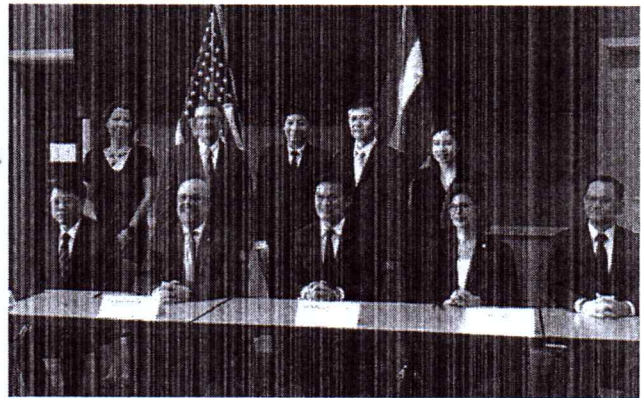
About CMKL University

Established on October 25, 2017 with the collaboration between Carnegie Mellon University & King Mongkut's Institute of Technology Ladkrabang.

Carnegie Mellon University
CMKL | Thailand

Carnegie Mellon University

Carnegie Mellon University
College of Engineering



<p>#1 Artificial Intelligence U.S. News & World Report 2020</p>	<p>#3 Computer Systems U.S. News & World Report 2020</p>	<p>#3 Graduate Computer Engineering U.S. News & World Report 2020</p>	<p>#3 Data Analytics/Science U.S. News & World Report 2020</p>	<p>#1 Cyber-Security U.S. News & World Report 2020</p>
<p>#2 Computer Science U.S. News & World Report 2020</p>	<p>#1 Software Engineering U.S. News & World Report 2020</p>	<p>Carnegie Mellon University</p>		

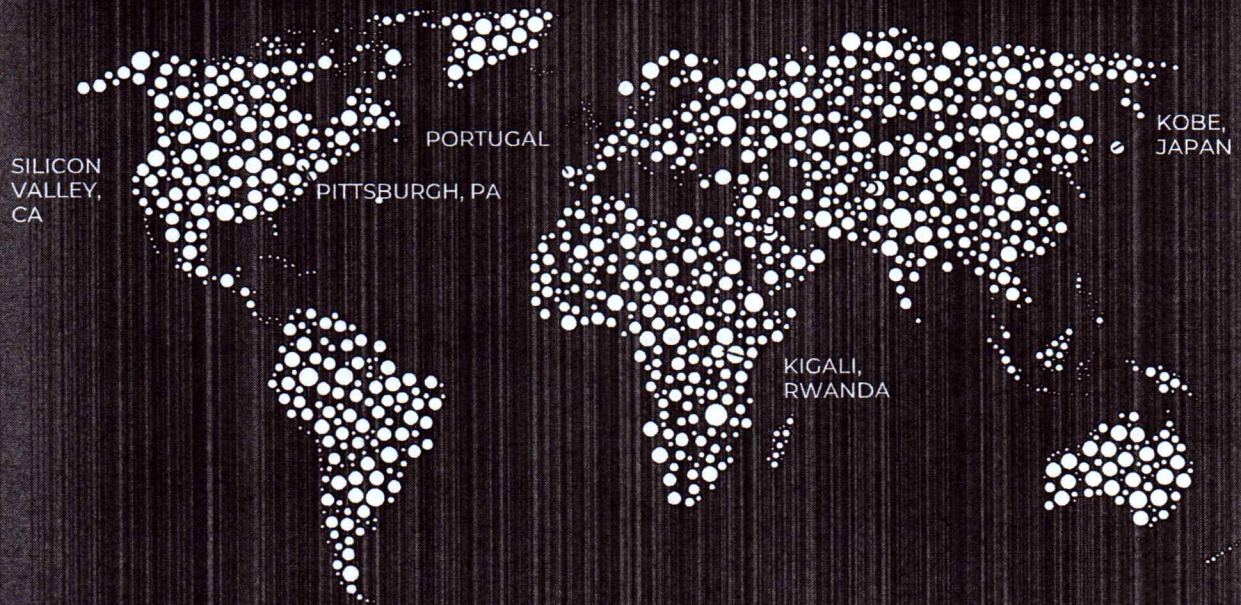


Carnegie Mellon University TARTANS

Carnegie Mellon University
CMKL | Thailand



Global Partnerships



Our Leadership



Prof. Dr. Surakiart Sathirathai

Chairman of the Executive Board of Friends in need (of "PA") Volunteer Foundation
Chairman of the Asian Peace and Reconciliation Council



Prof. Dr. Suchatvee Suwansawat

President, King Mongkut's Institute of Technology Ladkrabang
President, Council of Engineers Thailand



Dr. Alfred Gusenbauer

Former Chancellor of Austria
Chairman of Supervisory Board, Strabag SE



Prof. José M. F. Moura

Philip L. and Marsha Dowd University Professor, Carnegie Mellon University
Former President of IEEE



Dr. Thapana Sirivadhanabhakdi

President and CEO, Thai Beverage Plc.



Dr. Vanus Taepaisitphongse

Chairman of the Executive Committee, Betagro Group



Prof. David W. Kennedy

Manley C. Hudson Professor of Law, Harvard Law School
Director, Institute for Global Law and Policy



Dr. Allan E. Goodman

President and CEO, Institute of International Education



Dr. Jaroondech Janjarussakul

Chair of Institute Promotion Committee, KMUTT

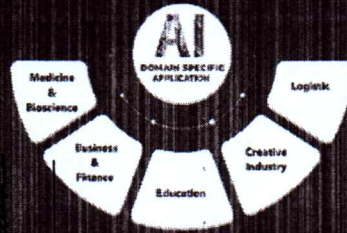


Assoc. Prof. Dr. Supan Tungjitkusolmun

President, CMKL University



AiCE Curriculum



- Remote Learning
- Monitoring
- Deep Learning
- Training
- Natural Language Processing
- Computer Vision
- Augmented Reality
- Robotics

- Pillar Security:**
- Robust AI, Generative
 - Secure Computing
 - Blockchain, Privacy
 - Bias
 - Zero trust model
 - Attack & defense
 - Cyber risk & Governance

- Pillar Design:**
- Human-centered
 - UX/UI design
 - XR
 - Virtual/Augmented/Mixed Reality
 - Game and Interactive applications
 - Software Engineering & Design Patterns
 - Accessibility

- Pillar System:**
- Accelerated Computing
 - Scalable AI, Distributed Systems
 - High Performance
 - Computing Container & Cloud-native computing
 - AI/MLOps, Network
 - Cyber-physical system

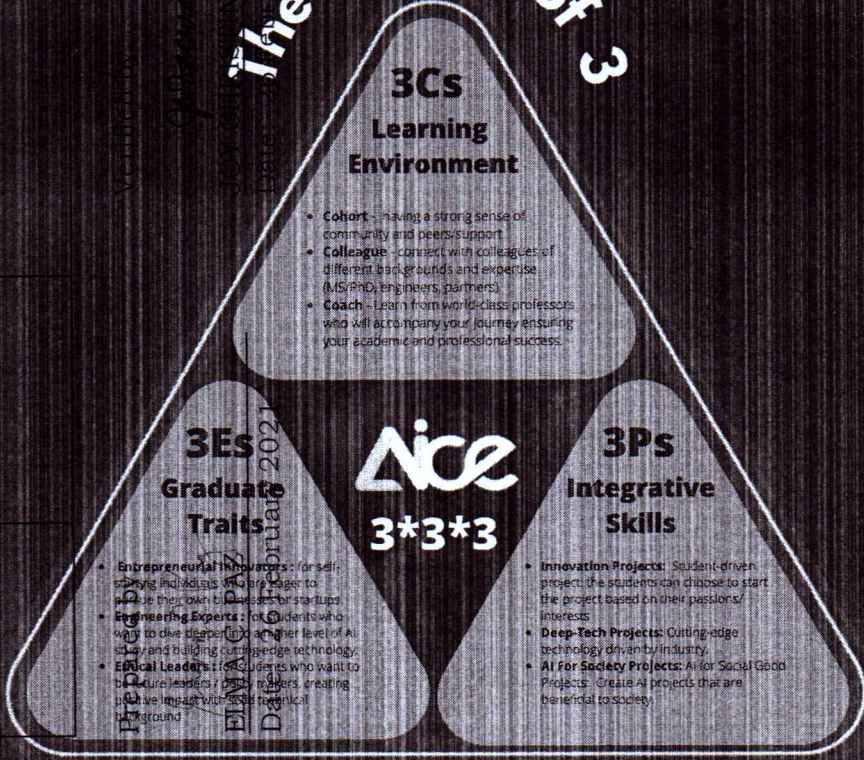
Entrepreneurship and Professionalism Thread :

"Integrative Skills"

Development / Communication / Teamwork / Economic Considerations / Privacy and confidentiality / Ethical Considerations / Legal considerations / Intellectual property / On Automation

3. "Innovation Projects" 4. "Deep-Tech Projects" 5. "AI for Society"

The Power of 3



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Commission on Higher Education



AiCE Curriculum



PERSONALIZED LEARNING CURRICULUM



3-YEAR ACCELERATED STUDY PLAN IS AVAILABLE



ACCESS TO THE BEST IN-CLASS FACILITIES AND AI SUPERCOMPUTING.



JOIN EXCHANGE PROGRAM AT CARNEGIE MELLON UNIVERSITY

Our competency-based AI and Computer Engineering program is created by academics in collaboration with industry professionals to guarantee that you obtain relevant skills to help you stand out in the AI Engineering field and advance your career at your own pace.

Accelerate Your Development of Competence Through A Self Paced Personalized Learning

Office of the President
Commission on Higher Education

REAL-WORLD TASK

A task that requires your knowledge through industry-driven practical application in real world context.

DATE: February 6, 2021

BITE-SIZED MODULE

Chunking of course content into flexible work units. More personalized.

ACTUAL TIME LOG

Prep	time in: 8:00am
Arra	time out: 5:00pm
Coor	time in: 8:00am

COMPETENCIES

Knowledge, skills and disposition that students gain from their learning.

Assis	time in: 8:00am
Artra	time out: 5:00pm
Coor	time in: 8:00am
Meec	time out: 5:00pm

CONTINUOUS ASSESSMENT

An on-going assessment that students' mastery of competencies will be evaluated throughout their course.

DATE: February 6, 2021

MASTERY

Students are evaluated based on how well they demonstrate each of the criteria of task assigned.

INDIVIDUAL

DATE: February 6, 2021

COMPETENCY DECK

Personalized learning board for students to show progress in their academic competence.

February 22

RECOMMENDATION

Mentors select the next task for the student to give a challenge that they have not yet mastered in practice.

DATE: February 20, 2021

PEER-LEARNING

Learning partnerships, promotes collegiality and develops a sense of mutual accountability among the students.

DATE: February 6, 2021

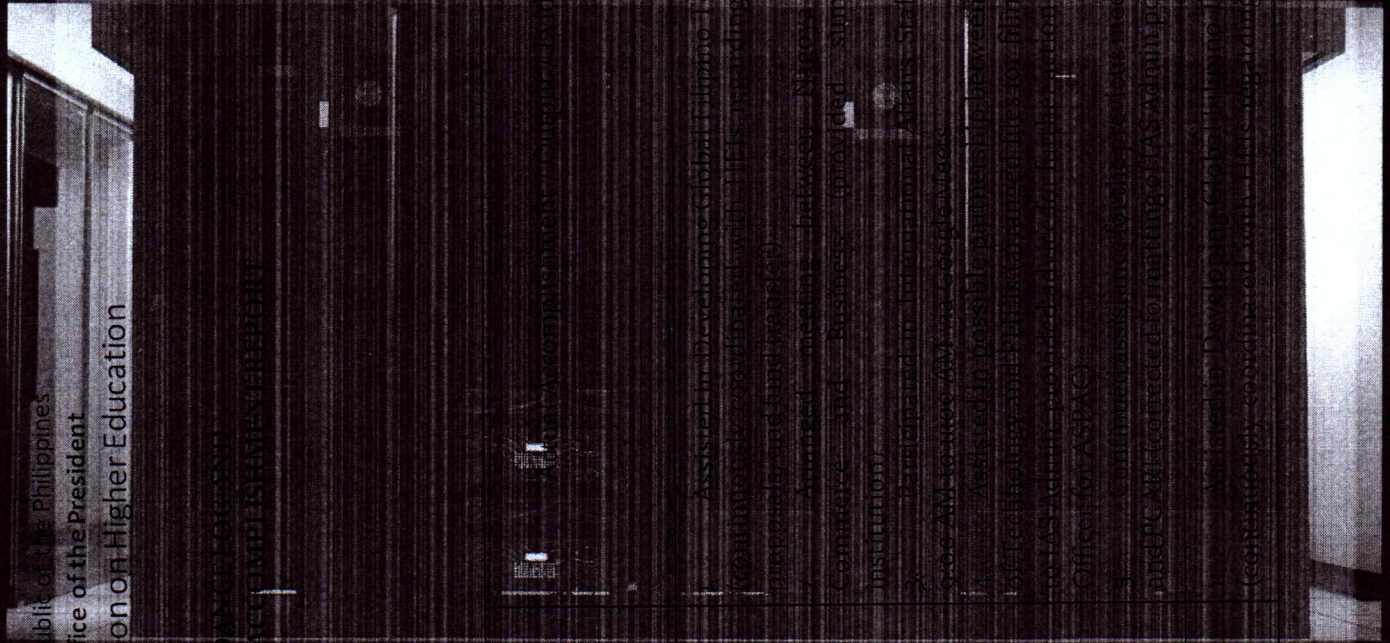
WE BUILD

- Engineering Experts
- Entrepreneurial Innovators
- Ethical Leaders

Carnegie Mellon University
CMU, Thailand



APEX Supercomputer



National AI Research Platform & Data Exchange

R&D Support from PMU-C; Office of National Higher Education Science Research and Innovation

Policy Council (NXPO); Ministry of Higher Education, Science, Research and Innovation

•Apex - AI Supercomputer

- First & largest node in university AI research infrastructure
- Partnership with Nvidia and Data Direct Network

•System overview

- 30 petaFLOPS AI (FP16) / 935 teraFLOPS (FP64)
- 1920 CPU cores / 48 A100 GPU
- 7.3 TB system memory + 1.92 TB GPU memory
- 3 PB storage
- 100 GbE Open Ethernet

AiCE Curriculum



AiCE Program Experience

Year 1	Foundation / Preparatory Program	Explore
Year 2	Engineering Breadth / Technical Core	Build: Prototyping
Year 3	Domain Specialization	Apply: Design & Development
Year 4	Capstone	Connect: R&D + Stakeholder Engagement

3-Year Accelerated Study Plan

CHED recognized institution (responsibility, and transfer of credit) is a great way for a student to earn a degree in a shorter span of time, particularly for those who enter CMKL with advanced placement, International Baccalaureate, college credits earned during high school, or credits earned at other institutions.

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Exchange and Internship @ CMU/CMKL

- Opportunities to participate in world-class research groups which often collaborate with various industries. You have opportunity to get hands on experience of the world of research.
- A chance to study in prestigious undergraduate classes for a semester or participate in a summer research internship. You will earn experiences at Carnegie Mellon University.

Holiday

25 February 2024

Carnegie Mellon University
CMKL Thailand



Destination for AICE students



Where AICE Will Take You

AICE curates relationships, educational experiences and resources to help you succeed in the job market upon graduation. Collaborative projects and research will put you in contact with industry experts and alumni, so you can envision your future.

₱ 102,450

Average Annual Base Salary

₱ 720,000

Average Annual Base Salary



Electrical & Computer ENGINEERING

Republic of the Philippines
OFFICE OF THE PRESIDENT
COMMISSION ON HIGHER EDUCATION
Project Pathway to
PhD in Electrical Engineering
Technique Metro University

TOP CAREERS

- Attended the NRGCCS Team Meeting
- Attended the IAS Staff Meeting
- Released approved communications
- Recommendation of a partner
- Online Training Course
- AI Machine Learning
- English
- Data Analyst
- Data Engineer
- Computer vision
- AI/ML developer
- Developed consulting
- Cyber Security
- Big Data Engineer
- Software Engineer
- Systems Engineer
- Data Scientist
- MLOps Engineer
- UX Engineer
- Operations for Human-AI Interactions
- Startup Founder
- Accomplished the assessment of the partnership proposal for EduTech Philippines Virtual 2024

Name: CACHAPERO, ONSO ANGELENE B
Position: PROJECT TECHNICAL STAFF III
Office/Division: INTERNATIONAL AFFAIRS STAFF
Period: 22 TO 26 FEBRUARY 2024

Alternative Work Arrangement		Actual Time Log/ Online Time Log	Actual Accomplishment / Output / Evidence/s
Skeleton Work Force (SWF)	Work From Home (WFH)		
		8:00am - 5:00pm	<ul style="list-style-type: none"> • Attended the NRGCCS Team Meeting • Attended the IAS Staff Meeting • Released approved communications • Recommendation of a partner • Online Training Course • AI Machine Learning • English • Data Analyst • Data Engineer • Computer vision • AI/ML developer • Developed consulting • Cyber Security • Big Data Engineer • Software Engineer • Systems Engineer • Data Scientist • MLOps Engineer • UX Engineer • Operations for Human-AI Interactions • Startup Founder
		9:00am - 6:00pm	<ul style="list-style-type: none"> • Accomplished the assessment of the partnership proposal for EduTech Philippines Virtual 2024

Guarantee Millen University
CAMA, Thailand



AICE Admission



Early Enrollment*

Application Deadlines

Interview Date

Notified by

Enrollment confirmed by

Noted by:

before January 15
within 3 weeks of
completing the application
within 4 weeks of completing
the application
within 3 weeks after receiving
the decision notification

Agreement concern

HOLIDAY

- Accomplished the AICE-IBNE Phase 3 by Post-Evaluation Survey Questionnaire
- Drafted Higher Inputs to the ASI-AN Education Work Plan 2021-2026

Worked on the report for the University of Alicante re: ... and mobility ...

Interview Date

Application Deadlines

Notified by

Enrollment confirmed by

25 February

Application Deadlines

Interview Date

Notified by

Enrollment confirmed by

Application Deadlines

Interview Date

Notified by

Enrollment confirmed by

26 February

Application Deadlines

Interview Date

Notified by

Enrollment confirmed by

Prepared by: *[Signature]*
 Verified by: *[Signature]*
 Noted by: *[Signature]*

CLAYTON LING CACHAPERO
 Technical Staff III
 Date: Feb 2022

JOY CHRISTINE GITAU
 International Affairs
 Date: 26 Feb 2022

ATY LILY FREIDA MILLARCESO
 Director IV
 Date: 22 Feb 2022

April 8
 April 23
 May 9
 No later than May 2, 2022

January 15
 January 29
 No later than April 1
 May 1

November 1
 November 13
 December 15
 February 1



AiCE Admission



- Common Application
- Application fee
- Official High School Transcript
- SAT/ACT Score (Optional) CMKL University SAT CEEB Code is 7791.
- Computer Science Proficiency (Optional):
 - CS50 Certificate or
 - AP Computer Science or IB/A-Level equivalent or
 - Hackerrank test
 - CMKL Intro Programming
- English Proficiency Requirement:
 - TOEFL iBT > 102 (University ETS code is C532) or
 - IELTS > 7.5 or
 - Duolingo English Test (DET) > 105 (Recommended)
- Statement of Purpose
- Two Recommendation Letters


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AiCE Club


Up to date with our CMKL innovations and projects.
Be the first to know about our upcoming events and activities.
Join special talks, events and workshops.
Get to talk & learn exclusively with our staff and engineers.
Be in touch and network with the experts in the field along with professors from world's top universities.

Alternative Work Arrangement
Skeleton Work Force (SWF)
February 22-26, 2021

Time in: 8:00am
Time out: 5:00pm



Join AiCE Club



#AiCE Club

- #CMKL Software Engineer**
- #CMKL Q&A - AiCE Admissions**
- #CMKL News**

AiCE Club

- Graggie
I've got Google intership info. Who want it?
- Cap
I need them too!
- Peppe
send please
- Phi
me too.

CMKL University Thailand

Time in: 8:00am
Time out: 5:00pm



Office of the President
Commission on Higher Education



Verified by:

[Signature]
ATY JULY ERIBIDA MATA, CFPQ-IV
Date: February 26, 2021

Verified by:

[Signature]
MS. JOY CHRISTINE G. GUAO
Date: February 26, 2021

Prepared by:

[Signature]
LLOYD EDGAR G. RIGGS
Date: February 26, 2021



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