

## Tamkang University Deepens Industry – Academia Partnership with AMD, Focusing on AI Curriculum, Robotics, and Campus Computing Infrastructure

Campus focus

Following President Huan–Chao Keh's recent visit to AMD Taiwan, both sides held an in–depth working–level meeting on April 15 and reached a consensus on future collaboration. AMD will support Tamkang University through its “AMD University Program (AUP),” providing cloud computing resources, AI PC equipment, and teaching materials to assist faculty in designing progressive learning pathways covering machine learning, natural language processing, and generative AI. Initial priorities include AI curriculum module design, campus computing infrastructure planning, and mechanisms for joint projects, with designated teams tasked with following up on implementation details and jointly advancing AI–driven educational innovation.

On the same day, AMD's delegation, led by Senior Vice President of Commercial Business Jeffrey Huang and including AUP Technical Consultant Hsu–Yu Chang, Commercial Business Manager Yen–Ming Ho, and FAE/Field Support Manager Wen–Tang Lee, visited the university. They met with Dean Tzung–Hang Lee of the College of Engineering, the College of Artificial Innovative Intelligence, and the College of Precision Healthcare, Dean of Academic Affairs Tzong–Ru Tsai, Chief Information Officer Kuei–Ping Shih, Director Shu–Han Liao of the Champion Incubation and Industry Collaboration Center, Director Chih–Hung Chung of the Center Distance Education Development, and faculty representatives including Professor Peter Liu (Chair, Department of Electrical and Computer Engineering), Professor Ching–Chang Wong, Shih–Hsin Chen (Chair, Department of Computer Science and Information Engineering), and Kuo–Chung Yu (Chair, Department of AI). During the meeting, Hsu–Yu Chang introduced the AUP, noting that it offers diverse resources such as cloud computing power, AI PCs, and instructional materials to reduce the burden on faculty when adapting curricula. Both

sides expressed strong optimism about the partnership and discussed a flexible, phased implementation approach. Courses will be tailored to institutional needs, covering topics from machine learning and deep learning to natural language processing and generative AI, forming a comprehensive and scalable AI learning pathway.

Dean Tzung-Hang Lee emphasized Tamkang's ongoing efforts to strengthen ties with industry in curriculum development, expressing hope that this collaboration will enable students to access world-class AI core technologies during their studies. He noted that the College of Engineering and the College of Artificial Innovative Intelligence possess strong faculty expertise and research capacity, making them key partners for AMD in advancing Taiwan's industry-academia ecosystem. Existing programs already provide foundational coursework, and further integration with AMD resources is expected to enhance students' hands-on capabilities, particularly in large language model applications.

In the areas of robotics and hardware development, both sides discussed the use of AMD development kits in teaching. AMD indicated that faculty may apply for free trial equipment for classroom use, and that existing courses such as logic circuits and digital design can be readily integrated with AMD platforms, lowering adoption barriers. Faculty participants widely agreed that robotics serves as an ideal platform for AI applications, and expressed interest in building a comprehensive curriculum spanning from FPGA to SoC development.

The meeting also addressed the establishment of on-campus computing infrastructure. AMD's local computing capabilities can support large language models, and when combined with open-source software frameworks, enable universities to build autonomous and secure AI inference environments. This approach can significantly reduce reliance on commercial cloud services while enhancing data security. CIO Shih noted that Tamkang University will evaluate the feasibility of these solutions and consider incorporating them into its overall IT planning.





