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Collaborating with the Arm Semiconductor Education Alliance: Inspiring the Future of Chips, Cultivating Excellence in Technical Talent

Signing Ceremony of Memorandum of Cooperation between NYCU and Arm Technology, Represented by President Chi-Hung Lin of NYCU (second from left), Vice President Chen-Yi Lee of NYCU (leftmost), Director of Academic Programs Richard Buttrey of Arm (second from right), and Taiwan President CK Tseng of Arm(right).

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After reaching an agreement with Purdue University for the Taiwan-U.S. Semiconductor Workforce Advancement Program (SWAP), our

Vice President Chen-Yi Lee stated, "By joining the Semiconductor Education Alliance initiated by Arm, National Yang Ming Chiao Tung University (NYCU) aims, on the one hand, to

university is once again collaborating with the globally renowned computing platform company, Arm, for its Semiconductor Education Alliance. Through this partnership, our aim is to address and bridge the academic-industry gap in Computer Engineering and Informatics (CEI) and Science, Technology, Engineering, and Mathematics (STEM).

Global Semiconductor Talent Faces Dual Challenges, NYCU Partners with Arm in Semiconductor Education Alliance to Foster Technology Professionals

As global semiconductor competition intensifies, Taiwan confronts a dual challenge of declining talent in the semiconductor industry and a decrease in the quality of the workforce due to demographic changes. According to the white paper of the Taiwan Semiconductor Industry Association, approximately 10,000 master's and doctoral graduates in electrical and computer engineering, as well as information and communication technology in Taiwan each

share its long-term accumulated teaching resources in the field of electrical and computer engineering. On the other hand, it seeks to acquire knowledge about the world's most advanced silicon intellectual property products, expand interdisciplinary teaching and research, and facilitate students' seamless integration with the latest industry technologies upon graduation."

Arm Taiwan President CK Tseng said, "Arm continues to bring innovative technologies to next-generation computing and spare no effort in supporting talent development in the academic and research community. Since its launch, the Semiconductor Education Alliance, initiated by Arm, has gained recognition from numerous enterprises and organizations in the industry, government, and academia.

With the Taiwan Semiconductor Research Center at the National Applied Research Laboratories already participating, NYCU has become the first top-tier

year. Even with half of these talents entering the semiconductor industry, there remains a workforce gap in the industry.[1]

In view of this, in recent years, our university has not only established a Bachelor's Program in Electronics and Photonics to enroll non-engineering talents but has also founded the Semiconductor Engineering Department, aiming to cultivate semiconductor professionals from the ground up. Simultaneously, we have collaborated with Arm to initiate the Semiconductor Education Alliance, becoming the first top-tier university in Taiwan to join the alliance. The five colleges within the university related to semiconductor education - College of Electrical and Computer Engineering, College of Computer Science, Industry Academia Innovation School, International College of Semiconductor Technology, and College of Artificial Intelligence—are also dedicated to reducing the academic-industry gap.

The Semiconductor Education Alliance is a

university in Taiwan to join this alliance. This collaboration will significantly contribute to the high-quality and substantial talent cultivation for developing Taiwan's semiconductor industry. "

The global strategic importance of the semiconductor industry is well known, with investments worth billions of dollars spanning various stages, from design and wafer manufacturing to deployment, creating opportunities for growth and innovation. Governments worldwide have increased investments in semiconductor talent in recent years, fostering closer collaboration with leading technology companies. In this context, our university collaborates with Arm, a global leader in computing platforms, to address talent development challenges, aiming to establish Taiwan as a critical hub for training talent in global chip design.

global initiative launched by Arm in July 2023. It has garnered support from key universities worldwide, government research institutions, and industry partners. Members include Cornell University in the United States and the Taiwan Semiconductor Research Institute. The alliance aims to address the increasing challenges in talent recruitment and skill enhancement for the industry by fostering interdisciplinary collaboration among academia, industry, and government. This collaboration allows the industrial, governmental, and academic sectors to work closely together on common goals, resource sharing, and the development of best practices and exemplary communities.

NYCU has partnered with Arm to establish the Semiconductor Education Alliance, marking the first top-tier Taiwanese university to join. The university's five semiconductor-related colleges—College of Electrical and Computer Engineering, College of Computer Science, Industry-Academia Innovation School, International College of Semiconductor Technology, and College of Artificial Intelligence—are committed to bridging the academic-industry gap.

Related Image(s)：

NYCU has signed a Memorandum of Cooperation with Arm Technology Corporation.

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