

Admission Brochure

International Master Program in Smart Manufacturing (INTENSE Program)

Degree	Master
College	College of Engineering
Begin Term	Fall (Enroll in September)
Language proficiency	<p>English proficiency certificate/proof required</p> <ul style="list-style-type: none"> • TOEIC 550 or above CEFR B1 <p>Chinese proficiency certificate/proof required</p> <ul style="list-style-type: none"> • Listening and Reading at least at level A2 in second year
Financial support	An English bank deposit statement issued within three months of at least US\$3,000 (~ NT\$90,000)
Application documents	<ul style="list-style-type: none"> • The highest-level degree diploma • The highest degree's full transcript of records • Financial statement • Recommendation letter x 2 • Statement of Purpose • Declaration of Nationality Form • Passport (if available) • Taiwan Alien Resident Certificate (ARC) (if available)

Documents required by department	<ul style="list-style-type: none"> • English personal statement (up to 1000 words) • Research plan (up to 3000 words) • English proficiency certificate • The highest degree's full transcript of records (including GPA score & ranking) • Other related references (ex. publications, journal papers, conference papers and technical reports) • Recommendation letter x2
Interview / Oral exam	Online interview with Collaborating Companies
Written exam	No
Additional notes	<p><u>Obligations</u></p> <ol style="list-style-type: none"> 1. Students receiving industry-academia scholarships from the National Development Fund, Taiwan are obligated to stay and work in Taiwan for a corresponding period based on the number of years they received the scholarship. 2. Those receiving a one-year industry-academia scholarship have a one-year obligation to stay and work in Taiwan, while those receiving a two-year industry-academia scholarship have a two-year obligation to stay and work in Taiwan. <p><u>***Notes</u></p> <ol style="list-style-type: none"> 1. If a student withdraws from the program midway during the academic term due to personal reasons, such as applying for transfer to another program, changing majors, taking a leave of absence, or returning to their home country, and after counseling from the school, still decides to give up continuing in the

program, or if the school, in accordance with its regulations, decides to withdraw or expel the student, **the student is required to fully repay any industry-academia scholarship funds received.**

2. If a student chooses not to work for the collaborating company or in a related industry field after graduation, and despite counseling from the school, **the student is required to fully repay any industry-academia scholarship funds received.**
3. If a student, after graduating and entering employment, violates company regulations leading to the lawful termination of the employment contract, and despite counseling from the school, **the student should repay the industry-academia scholarship funds proportionally based on the number of months not employed**; for a period less than one month, it will be counted as one month.
4. During the period of fulfilling the employment obligation after graduation, students are required to **work in a position within domestic collaborating companies in Taiwan**. They are not allowed to be dispatched to work at overseas branches or be employed by overseas Taiwanese-owned companies. **If a student fails to comply with the requirement of domestic employment, they should repay the industry-academia scholarship funds proportionally based on the number of months not employed in Taiwan**; for a period less than one month, it will be counted as one month.

Scholarship	<ol style="list-style-type: none"> 1. National Development Fund, Taiwan: <ol style="list-style-type: none"> (1) NT 100,000 for the first year. (2) If you pass the Chinese proficiency test -Listening and Reading at least at level A2, you can get NT 100,000 for the second year. 2. Matching funding from Company: NT 240,000 / 2 years (NT 10,000 per month for up to 2 years). 3. Administrative fee: <ol style="list-style-type: none"> (1) The administrative fees have a maximum limit of NT\$10,000. (2) The one-way airfare is based on the most direct economy class flight to Taiwan. (Reimbursed with a maximum limit of NT\$9,000)
Introduction	<p>This new program is based on the talent demand of domestic industries. Schools and enterprises sign industry-academia cooperation plans, jointly select outstanding students, and design customized courses through collaborative efforts.</p> <p>This program focuses on its core research on precision machining and manufacturing systems and develops intelligent manufacturing technologies by taking advantage of rapid advances in information communication technology (ICT), micro-and-nano technology, and materials science. Specifically, the core research includes:</p> <ul style="list-style-type: none"> • Industry 4.0 and smart manufacturing • Precision Medicine • Semiconductor Process • Low Carbon Manufacturing • Electric Vehicles • Cyber-physical systems • Intelligent manufacturing with artificial intelligence • Gear closed-loop intelligence manufacturing • Digital intelligent diagnostic systems • Advanced applications in Engineering

Curriculum planning	<p>This program (International Master Program in Smart Manufacturing) is an all-English graduate program that aims to attract, educate and prepare students for leading roles in the field of advanced manufacturing. Our graduate program emphasizes the integration of multidisciplinary knowledge including mechatronics, precision machining and manufacturing, cloud computing, and artificial intelligence to equip students with the technical and leadership skills required to excel in careers in the manufacturing industry.</p>
Future map	<p>Employment career: Students should work in Taiwan after graduation for at least 2 years in a collaborating Company.</p> <p>*** <u>Collaborating Companies (Totally 4 companies and 14 positions)</u></p> <ol style="list-style-type: none"> 1. CHENBRO MICOM CO., LTD. 勤誠興業股份有限公司 (5 positions) : <ol style="list-style-type: none"> A. Mechanical Engineer / 1 position B. Product Engineer / 2 positions C. Automation Engineer / 2 positions <p>https://www.mtb2b.tw/en/exhibitors/2350/about</p> 2. TA-FA METALLIC INDUSTRIAL CO., LTD. 大發金屬工業股份有限公司 (3 positions) : <ol style="list-style-type: none"> A. R&D Department (Mechanical Sheet Metal Drafting R&D Staff) / 2 positions B. Test Engineer / 1 position <p>https://www.ta-fa.com.tw/</p> 3. YEONG CHIN MACHINERY INDUSTRIES CO., LTD 永進機械工業股份有限公司 (4 positions) : <ol style="list-style-type: none"> A. Mechanical Design Engineer/ 1 position B. Electrical Control Design Engineer / 2 positions

	<p>C. Product Testing Engineer / 1 position https://www.ycmcnc.com/about</p> <p>4. hiPower Hydrogen Technology Co., Ltd. 鐙鋒氫科技股份有限公司 (2 positions) :</p> <p>A. Equipment Testing Engineer / 1 position</p> <p>B. Hydrogen Production Testing Engineer / 1 position</p> <p>http://www.hipower.ltd</p>
Website	<p>This Program Website https://aimhi.ccu.edu.tw/p/404-1017-53935.php?Lang=zh-tw</p> <p>The Department of Mechanical Engineering https://deptime.ccu.edu.tw/?Lang=en</p>
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Getting to CCU



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Office of International
Affairs (OIA)