

College of Electrical Engineering  
and Computer Science

# Admissions Brochure

**MASTER'S  
DEGREE**

**2025/2026 First Semester  
2nd Round**



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# Department of Electrical Engineering

Master's Degree

2025/2026 First Semester Second Round

Department info

Application requirements

## About the course

### Curriculum planning

Master Thesis (0 credit), Seminar (required every semester) (0 credit), Special Project (required every semester) (1 credit), Colloquium (required one semester) (1 credit), etc (for reference only)

Master Program Requirement: 24 credits required (excluding Seminar, Special Project, Speech, Thesis, Foreign Language and undergraduate courses), among which 12 credits should be of major field courses. Major field courses may be defined by advisor.

### Future map

Within the EE areas, the Graduate Program of Electrical Engineering, the Graduate Institute of Photonics and Optoelectronics, Communication Engineering, Electronics Engineering, and Biomedical Electronics and Bioinformatics offer graduate programs, leading to the degrees of Master of Science (M.S.) and Doctor of Philosophy (Ph.D.), and aim to prepare the students especially for a career in teaching and/or research.

## Department info

### Web URL

<https://web.ee.ntu.edu.tw/eng/index.php>

### Introduction

#### **Undergraduate Program**

The Department of Electrical Engineering at National Taiwan University (NTUEE) has been the top choice in Taiwan among students admitted to undergraduate programs in natural sciences and engineering since 1970. Over the years, the department has received world-wide recognition not only for its

outstanding research in EE-related areas, but also for its top-notch students and alumni. Our faculty members include over 30 IEEE fellows and many more (>15) ACM, OPTICA, SPIE, SID fellows. The department is recognized among the best in several categories, including microwave theories and technologies, integrated circuits and systems and electronic design automation, and more. With its long history of excellence in teaching, research and contributions/services to the society/industry, NTUEE is one of the most competitive EE departments in the world.

The program of NTUEE is one of the most comprehensive among electrical/ electronics/ informatics/ related departments over the world. The faculty's expertise and courses cover 11 areas of EE, including Automatic Control, Power Systems/Power Electronics, Computer Science, Biomedical Engineering, Electro-Optics, Electromagnetic Waves, Communications and Signal Processing, Integrated Circuits and Systems, Nano-electronics, Electronic Design Automation, and Data Science and Smart Networking. Thus, NTUEE undergraduate students have the opportunity to expose themselves to many different divisions of the field.

The design of undergraduate coursework at NTUEE aims at providing students with broad and basic training, such as electric circuits, electronics, electromagnetics, engineering mathematics, programming, and electronic circuit lab, etc. After being equipped with enough basic knowledge, students can further explore/develop their own interest in specific subjects and professional areas by taking advantage of a rich set of elective and advanced courses/labs in a wide variety of areas.

B.S. graduates from the department can further pursue their graduate/advanced studies in different EE areas within the NTU EECS College, by applying to the graduate program of the EE department, Graduate Institute of Electronics Engineering, Graduate Institute of Communication Engineering, Graduate Institute of Photonics and Optoelectronics, or Graduate Institute of Biomedical Electronics and Bioinformatics. Overall, these provide diverse channels for students to further develop their professional expertise and careers.

## **Graduate Program**

The Department of Electrical Engineering at National Taiwan University (NTUEE) is well recognized for its outstanding research achievements and high quality engineers/researchers. The graduate program at NTUEE consists of three divisions: Automatic Control, Power System/Power Electronics, and Computer Science. The NTUEE Graduate Program hosts over 30 outstanding faculty, among which there are numerous IEEE fellows, ACM fellow, and recipients of national research awards. NTUEE Graduate Program is devoted into developing frontier technologies/science with its research disciplines covering the following topics: robotics, nanotechnologies, GPS navigation, computer network control and management, linear/nonlinear system analysis and control, intelligent control, adaptive control, real-time control, power electronics, power IC, renewable energy, power converter, smart grid, power system analysis, power system stability and control, computer relaying, artificial intelligence, computation theory, cloud-computing, dependable distributed computing, quantum computing, SOC design verification, internet technologies, wireless network and mobile computing, multi-media technologies, operating systems, music signal processing, computer processing of speech signal, verification automation, software testing, cyber-security, data-mining, etc.

NTUEE welcomes talented students to apply for the Master degree or the Ph. D. degree program. All faculty at NTUEE can speak Chinese as well as English.

## **Contact**

### **Administration Staff**

Name: Ms. Lillian LIANG

Telephone Number:02-33663586

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# Department of Electrical Engineering

Master's Degree

2025/2026 First Semester Second Round

Department info	Application requirements
Language of instruction	English-taught program (Sufficient English courses to meet graduation requirements)
Minimum language proficiency requirements	<p><b>English:</b></p> <ul style="list-style-type: none"><li>• English proficiency certificate at CEFR (B2 or above) (Please refer to English Proficiency Test Comparison Chart)</li><li>• General English Proficiency Test (GEPT) High-Intermediate or above</li><li>• IELTS 5.5 or above</li><li>• TOEFL (iBT) 72 or above</li><li>• TOEIC 785 or above</li><li>• Cambridge English First (FCE) or above</li><li>• Aptis General Overall CEFR B2 or above</li><li>• BEST Test of English Proficiency 200 or above</li><li>• TOEFL ITP 543 or above</li></ul> <p><b>English language test waivers:</b></p> <ul style="list-style-type: none"><li>• Not required for applicants from English-speaking countries</li><li>• Not required for applicants whose previous degree is from English-speaking countries</li><li>• Not required for applicants whose previous degree is entirely taught in English</li></ul>
Department's recommended language skills	<p><b>Chinese:</b></p> <ul style="list-style-type: none"><li>• Chinese proficiency certificate at CEFR (A2 or above) (Please refer to the Chinese Proficiency Test Comparison Chart)</li><li>• Not required for applicants whose native language is Chinese (self statement needed) or whose previous degree is taught in Chinese (proof required).</li></ul>

	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>English proficiency certificate at CEFR (C1 or above) (Please refer to English Proficiency Test Comparison Chart)</li> <li>Not required for applicants from English-speaking countries or whose previous</li> </ul>
Application documents	<ul style="list-style-type: none"> <li>Passport or ID</li> <li>Alien Resident Certificate (ARC) (if applicable)</li> <li>Graduation Certificate of highest degree awarded - Original version</li> <li>Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Original version</li> <li>Graduation Certificate of highest degree awarded - Translated version</li> <li>Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Translated version</li> <li>Financial Statement</li> </ul>
Documents required by department	<ul style="list-style-type: none"> <li>Statement of purpose (specifying research area in subject)</li> <li>CV</li> <li>Recommendation letter x 2</li> </ul>
Interview / Oral exam	None
Written exam	None
Additional notes	<ol style="list-style-type: none"> <li>If the application documents are not complete, the department has the right to neglect the application.</li> <li>Please make sure to specify in the subject of Statement of Purpose your planned research area, which should be ONE of the following: (1) Automatic Control, (2) Power System/ Power Electronics, (3) Computer Science.</li> <li>Upon admission, research advisor should be identified before courses start. Please note that only our faculty members can be your research advisor (see our website for faculty information: <a href="http://www.ee.ntu.edu.tw/graduate">www.ee.ntu.edu.tw/graduate</a>).</li> </ol>
Scholarship	<b>Name: EECS Global Elite Cultivation Fellowship</b>

from college or department

**Amount:**

- TWD 480,000 (~USD 15,500) for 2 years.
- 2-month internship in leading companies.
- Pre-employment opportunity in leading companies

**Advantages:**

- Actively participate in academia and industry collaboration.
- Closely engage with top professors in NTU EECS.
- Internship and job offer opportunities from global leading companies.

**Additional notes:**

- Students who apply for the fellowship are required to download and complete the application form.
- Top Talents have the opportunity to receive BOTH EECS Global Elite Cultivation Fellowship and International Student Scholarship by EECS.

**Name: International Student Scholarship by College of Electrical Engineering and Computer Science of National Taiwan University**

**Amount:**

- For doctoral student: NTD \$16,000 monthly living cost.
- For MS student: NTD \$12,000 monthly living cost

**Additional notes:**

- Students awarded with scholarship for 1 semester will receive scholarship for no more than 5 months; Students awarded with scholarship for 1 academic year will receive scholarship for no more than 10 months.
- The exact number of awardees and awarded periods will be subject to the funding conditions of each year.
- Prospective students and Current students can apply for the College scholarship after registration under the application process announced by the College of EECS, NTU.

\*In addition to the College Scholarship, please refer to the following website for the information of NTU Scholarships:

<https://admissions.ntu.edu.tw/apply/scholarships/>



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from NTU

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### **Undergraduate Students:**

- NTU International Undergraduate Student Scholarship

### **Graduate Students:**

- Outstanding International Graduate Student Scholarship
- NTU Outstanding PhD Student Scholarship
- Scholarship for Latin America and Caribbean Project
- NTU Loyalty Award
- NTU Scholarship for Central and Eastern

### **European Countries**

- Please refer to [NTU Overseas Student Admissions >> Apply - Degree & Non-Degree Admissions >> Scholarships – Degree Admissions](#) for detailed information.

\*Applicants who apply through the TIGP system are only eligible for TIGP scholarships, and are not able to receive the NTU scholarships.

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# Department of Computer Science and Information Engineering

Master's Degree

2025/2026 First Semester Second Round

Department info

Application requirements

## About the course

### Curriculum planning

The department offers courses covering seven areas: computer theory, computer software, computer systems, computer networks, artificial intelligence, multimedia and bioinformatics. For the bachelor's program, students take basic courses in computer theory, computer software, computer systems, and computer networks.

For the graduate program, students are provided with further training in their fields of specialization, thus paving the way for their participation in information research.

Please refer to [https://coursemap.aca.ntu.edu.tw/course\\_map\\_all/upload\\_jpg/Ecou9020.pdf](https://coursemap.aca.ntu.edu.tw/course_map_all/upload_jpg/Ecou9020.pdf)

### Future map

Graduates have a very broad range of job opportunities, including computer software design and management, R&D in computer networking, financial computing, IC designs, telecommunication, multimedia, office automation, and so on. Our graduates are also fully capable of performing excellent research and have been an important part of global academic society.

## Department info

### Web URL

<https://www.csie.ntu.edu.tw//?locale=en>

### Introduction

Our department is the cradle for nurturing top information-technology

professionals and leaders. Interdisciplinary research over hardware/software, bioinformatics, arts, and ontology is also explored in the department.

## Contact

### **Administration Staff**

Name: Ms. Elaine Sung

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# Department of Computer Science and Information Engineering

Master's Degree

2025/2026 First Semester Second Round

Department info	Application requirements
Language of instruction	<p>English-taught program (Sufficient English courses to meet graduation requirements)</p>
Minimum language proficiency requirements	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• English proficiency certificate at CEFR (B2 or above) (Please refer to English Proficiency Test Comparison Chart)</li> <li>• General English Proficiency Test (GEPT) High-Intermediate or above</li> <li>• IELTS 5.5 or above</li> <li>• TOEFL (iBT) 72 or above</li> <li>• TOEIC 785 or above</li> <li>• Cambridge English First (FCE) or above</li> <li>• Aptis General Overall CEFR B2 or above</li> <li>• BEST Test of English Proficiency 200 or above</li> <li>• TOEFL ITP 543 or above</li> </ul> <p><b>English language test waivers:</b></p> <ul style="list-style-type: none"> <li>• Not required for applicants from English-speaking countries</li> <li>• Not required for applicants whose previous degree is from English-speaking countries</li> <li>• Not required for applicants whose previous degree is entirely taught in English</li> </ul>
Department's recommended language skills	<p><b>Chinese:</b></p> <ul style="list-style-type: none"> <li>• Chinese proficiency certificate at CEFR (A2 or above) (Please refer to the Chinese Proficiency Test Comparison Chart)</li> </ul> <p><b>English:</b></p>

	<p>Need to provide one of the following English certificates:</p> <ul style="list-style-type: none"> <li>• IELTS 6.5or above</li> <li>• TOEFL (iBT) 83or above</li> <li>• TOEIC 850or above</li> </ul>
Application documents	<ul style="list-style-type: none"> <li>• Passport or ID</li> <li>• Alien Resident Certificate (ARC) (if applicable)</li> <li>• Graduation Certificate of highest degree awarded - Original version</li> <li>• Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Original version</li> <li>• Graduation Certificate of highest degree awarded - Translated version</li> <li>• Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Translated version</li> <li>• Financial Statement</li> </ul>
Documents required by department	<ul style="list-style-type: none"> <li>• Chinese proficiency</li> <li>• Grade explanation</li> <li>• Academic ranking or percentage in English (if applicable)</li> <li>• Research Proposal</li> <li>• Recommendation letter x 2</li> </ul>
Interview / Oral exam	<p>The committee will review the submitted materials. The applicant may be invited to an interview if necessary.</p>
Written exam	None
Additional notes	<p>Confirmation of your advisor comes after being admitted to NTU and is not necessary for your application. Nevertheless, you are encouraged to enrich your Research Proposal by discussing your research direction with professors you are genuinely interested in and highlighting the discussion results.</p> <p>You can also list up to 3 professors and the corresponding research directions that interest you, regardless of whether you have discussed with them or not. Please visit our Department's website for our faculty research expertise.</p>
Scholarship from college or	<p><b>Name: EECS Global Elite Cultivation Fellowship</b></p> <p><b>Amount:</b></p>

department

- TWD 480,000 (~USD 15,500) for 2 years.
- 2-month internship in leading companies.
- Pre-employment opportunity in leading companies

**Advantages:**

- Actively participate in academia and industry collaboration.
- Closely engage with top professors in NTU EECS.
- Internship and job offer opportunities from global leading companies.

**Additional notes:**

- Students who apply for the fellowship are required to download and complete the application form.
- Top Talents have the opportunity to receive BOTH EECS Global Elite Cultivation Fellowship and International Student Scholarship by EECS.

**Name: International Student Scholarship by College of Electrical Engineering and Computer Science of National Taiwan University**

**Amount:**

- For doctoral student: NTD \$16,000 monthly living cost.
- For MS student: NTD \$12,000 monthly living cost

**Additional notes:**

- Students awarded with scholarship for 1 semester will receive scholarship for no more than 5 months; Students awarded with scholarship for 1 academic year will receive scholarship for no more than 10 months.
- The exact number of awardees and awarded periods will be subject to the funding conditions of each year.
- Prospective students and Current students can apply for the College scholarship after registration under the application process announced by the College of EECS, NTU.

\*In addition to the College Scholarship, please refer to the following website for the information of NTU Scholarships:

<https://admissions.ntu.edu.tw/apply/scholarships/>

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**Undergraduate Students:**

- NTU International Undergraduate Student Scholarship

**Graduate Students:**

- Outstanding International Graduate Student Scholarship
- NTU Outstanding PhD Student Scholarship
- Scholarship for Latin America and Caribbean Project
- NTU Loyalty Award
- NTU Scholarship for Central and Eastern

**European Countries**

- Please refer to [NTU Overseas Student Admissions >> Apply - Degree & Non-Degree Admissions >> Scholarships – Degree Admissions](#) for detailed information.

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# Graduate Institute of Photonics and Optoelectronics

Master's Degree

2025/2026 First Semester Second Round

Department info

Application requirements

## About the course

### Curriculum planning

Required courses: Master's thesis, Special research, Seminar, Colloquium, etc.

For more information, please refer to the website:

<https://gipo.ntu.edu.tw/en/admission/ma>

### Future map

Our primary research focuses on optoelectronic-related technologies, including optics, semiconductors, optical communications, silicon photonics, lasers, light-emitting diodes (LEDs), solar energy photovoltaics, display technologies, and biomedical research. The research scope encompasses device physics, packaging, and final products. Therefore, graduates from our institute have a wide range of career opportunities, including chip fabrication technology, optical lithography, and semiconductor device design and manufacturing-related semiconductor industries, or in industries such as optical communications, display technology, energy technology, medical technology, and so forth. It can be said that all relevant technology companies in the science park are potential future career paths for our graduates.

## Department info

### Web URL

<https://gipo.ntu.edu.tw/?locale=en>

### Introduction

The research topics of the faculty in GIPO cover a broad spectrum of photonics and optoelectronics technologies, including

1. Display technologies: liquid crystal display (LCD), organic-light-emitting-



diode (OLED) display, transparent metal oxide semiconductor, flexible electronics, projection display, and stereoscopic/autostereoscopic 3D display.

2. Energy technologies: solid-state lighting, and organic/inorganic/hybrid solar cells.
3. Nano-technologies: quantum dots, nano-wires, photonic crystals, and surface plasmonics.
4. Nonlinear-optics technologies: nonlinear photonic crystals.
5. Optical fiber communication technologies: active/passive fiber-based devices, modules/subsystems in optical fiber communication, LiNbO<sub>3</sub> waveguides, optical interconnect, and photonic integration circuits.
6. Optoelectronic devices: laser diodes, photo-detectors, CMOS optoelectronic devices, and Nitride-based semiconductor devices.
7. Bio-photonic technologies: bio-sensing, bio-photonic instrumentation, and optical coherence tomography.
8. Computer-assisted simulations: optical and THz waveguide structures, micro-/nano-structures, photonic crystal structures, and optoelectronic devices.

## Contact

### **Administration Staff**

Name: Ms. Jane Chien

Telephone Number:02-33663587

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# Graduate Institute of Photonics and Optoelectronics

Master's Degree

2025/2026 First Semester Second Round

Department info	Application requirements
Language of instruction	English-taught program (Sufficient English courses to meet graduation requirements)
Minimum language proficiency requirements	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• English proficiency certificate at CEFR (B2 or above) (Please refer to English Proficiency Test Comparison Chart)</li> <li>• General English Proficiency Test (GEPT) High-Intermediate or above</li> <li>• IELTS 5.5 or above</li> <li>• TOEFL (iBT) 72 or above</li> <li>• TOEIC 785 or above</li> <li>• Cambridge English First (FCE) or above</li> <li>• Aptis General Overall CEFR B2 or above</li> <li>• BEST Test of English Proficiency 200 or above</li> <li>• TOEFL ITP 543 or above</li> </ul> <p><b>English language test waivers:</b></p> <ul style="list-style-type: none"> <li>• Not required for applicants from English-speaking countries</li> <li>• Not required for applicants whose previous degree is from English-speaking countries</li> <li>• Not required for applicants whose previous degree is entirely taught in English</li> </ul>
Department's recommended language skills	Minimum language proficiency requirements
Application documents	<ul style="list-style-type: none"> <li>• Passport or ID</li> <li>• Alien Resident Certificate (ARC) (if applicable)</li> <li>• Graduation Certificate of highest degree awarded -</li> </ul>

	<p>Original version</p> <ul style="list-style-type: none"> <li>• Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Original version</li> <li>• Graduation Certificate of highest degree awarded - Translated version</li> <li>• Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Translated version</li> <li>• Financial Statement</li> </ul>
Documents required by department	<ul style="list-style-type: none"> <li>• Autobiography</li> <li>• Recommendation letter x 1</li> </ul>
Interview / Oral exam	<p>The committee will review the submitted materials. The applicant may be invited to an interview if necessary.</p>
Written exam	None
Additional notes	None
Scholarship from college or department	<p><b>Name: EECS Global Elite Cultivation Fellowship</b></p> <p><b>Amount:</b></p> <ul style="list-style-type: none"> <li>• TWD 480,000 (~USD 15,500) for 2 years.</li> <li>• 2-month internship in leading companies.</li> <li>• Pre-employment opportunity in leading companies</li> </ul> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>• Actively participate in academia and industry collaboration.</li> <li>• Closely engage with top professors in NTU EECS.</li> <li>• Internship and job offer opportunities from global leading companies.</li> </ul> <p><b>Additional notes:</b></p> <ul style="list-style-type: none"> <li>• Students who apply for the fellowship are required to download and complete the application form.</li> <li>• Top Talents have the opportunity to receive BOTH EECS Global Elite Cultivation Fellowship and International Student Scholarship by EECS.</li> </ul> <p><b>Name: International Student Scholarship by College of Electrical Engineering and Computer Science of National</b></p>

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## Taiwan University

### Amount:

- For doctoral student: NTD \$16,000 monthly living cost.
- For MS student: NTD \$12,000 monthly living cost

### Additional notes:

- Students awarded with scholarship for 1 semester will receive scholarship for no more than 5 months; Students awarded with scholarship for 1 academic year will receive scholarship for no more than 10 months.
- The exact number of awardees and awarded periods will be subject to the funding conditions of each year.
- Prospective students and Current students can apply for the College scholarship after registration under the application process announced by the College of EECS, NTU.

\*In addition to the College Scholarship, please refer to the following website for the information of NTU Scholarships:

<https://admissions.ntu.edu.tw/apply/scholarships/>

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### Undergraduate Students:

- NTU International Undergraduate Student Scholarship

### Graduate Students:

- Outstanding International Graduate Student Scholarship
- NTU Outstanding PhD Student Scholarship
- Scholarship for Latin America and Caribbean Project
- NTU Loyalty Award
- NTU Scholarship for Central and Eastern

### European Countries

- Please refer to NTU Overseas Student Admissions >> Apply - Degree & Non-Degree Admissions >> Scholarships – Degree Admissions for detailed information.

\*Applicants who apply through the TIGP system are only eligible for TIGP scholarships, and are not able to receive the

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Scholarship  
from NTU

NTU scholarships.

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# Graduate Institute of Communication Engineering

Master's Degree

2025/2026 First Semester Second Round

Department info

Application requirements

## About the course

### Curriculum planning

- Required Course: Master Thesis, Seminar, Special Project, Department Colloquium, etc (for reference only)
- MS Program: The minimum required course credits are 24 credits (excluding Seminar, Special Project, Department Colloquium, Theses, and Foreign Languages), of which at least 12 credits have been taken from the enrolled specialization group.

<https://comm.ntu.edu.tw/en/Master.php>

### Future map

- High Job Security - Graduates were highly recognized by international large-scale enterprises. Taiwanese companies, including ASUS, Delta, HTC, MediaTek, Quanta Computer, RealTek, and TSMC, extensively employ our graduates with high satisfaction.
- Further development - Graduates can choose to engage in academic research or pursue advanced studies abroad. Additionally, many alumni have started their own businesses and achieved great success.

## Department info

### Web URL

<https://comm.ntu.edu.tw/en/>

### Introduction

The Graduate Institute of Communication Engineering (GICE) was founded on August 1, 1997, and is comprised of three groups, the "Electromagnetics Group", the "Communication and Signal Processing Group" and the "Data Science and Smart Networking". Electromagnetics Group studies antennas,

integrated circuit designs, electronic packaging, electromagnetic compatibility, etc. The research scale covers from single component design to complete system design. The frequency range covers microwave, millimeter-wave and terahertz wave. The current goal is to develop 6G wireless communication systems with domestic and international collaborators. Communication and Signal Processing Group is the first academic unit in Taiwan to engage in research on digital communications and signal processing, with the main focus on communications, signal processing, multimedia processing, communication networks, and emerging areas. The expertise of the faculty members in the group covers:

- Modulation, Coding, and Signal Processing (including Equalization, Filter Design, Array Antenna Processing, etc.) in the Physical Layer.
- Network Protocol, Architecture Design (including Wired and Wireless networks), as well as Multimedia Message Compression, Processing, Access, and Integration in the Application Layer.
- Emerging areas such as Deep Learning, Foresight Quantum Information Technology (such as Quantum Information Theory, Quantum Communication, Quantum Machine Learning, etc.), Smart Healthcare, Financial Technology, Metaverse, etc.

For Data Science and Smart Network Group, the Data Science sub-group focuses on research topics of Machine Learning, Artificial Intelligence, Computational Perception, Information Retrieval, and Data Privacy & Security. As for the Smart Network sub-group, the research topics include Internet of Things (IoT), Software-Defined Network (SDN), and Network Function Virtualization.

GICE is responsible to be the leader in education and research in the communication engineering field in Taiwan, and aims to become the international pioneer in innovative communication engineering. Our goal is to nurture creative and confident talent with international perspectives.

## Contact

### **Administration Staff**

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Email:wening@ntu.edu.tw

# Graduate Institute of Communication Engineering

Master's Degree

2025/2026 First Semester Second Round

Department info	Application requirements
Language of instruction	English-taught program (Sufficient English courses to meet graduation requirements)
Minimum language proficiency requirements	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• English proficiency certificate at CEFR (B2 or above) (Please refer to English Proficiency Test Comparison Chart)</li> <li>• General English Proficiency Test (GEPT) High-Intermediate or above</li> <li>• IELTS 5.5 or above</li> <li>• TOEFL (iBT) 72 or above</li> <li>• TOEIC 785 or above</li> <li>• Cambridge English First (FCE) or above</li> <li>• Aptis General Overall CEFR B2 or above</li> <li>• BEST Test of English Proficiency 200 or above</li> <li>• TOEFL ITP 543 or above</li> </ul> <p><b>English language test waivers:</b></p> <ul style="list-style-type: none"> <li>• Not required for applicants from English-speaking countries</li> <li>• Not required for applicants whose previous degree is from English-speaking countries</li> <li>• Not required for applicants whose previous degree is entirely taught in English</li> </ul>
Department's recommended language skills	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• English proficiency certificate at CEFR (C1 or above) (Please refer to English Proficiency Test Comparison Chart)</li> </ul>
Application documents	<ul style="list-style-type: none"> <li>• Passport or ID</li> <li>• Alien Resident Certificate (ARC) (if applicable)</li> </ul>



	<ul style="list-style-type: none"> <li>• Graduation Certificate of highest degree awarded - Original version</li> <li>• Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Original version</li> <li>• Graduation Certificate of highest degree awarded - Translated version</li> <li>• Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Translated version</li> <li>• Financial Statement</li> </ul>
Documents required by department	<ul style="list-style-type: none"> <li>• CV (Curriculum Vitae)</li> <li>• Autobiography</li> <li>• Statement of Purpose</li> <li>• Published papers or Curriculum Research Reports (if applicable)</li> <li>• Recommendation letter x 1</li> </ul>
Interview / Oral exam	None
Written exam	None
Additional notes	None
Scholarship from college or department	<p><b>Name: EECS Global Elite Cultivation Fellowship</b></p> <p><b>Amount:</b></p> <ul style="list-style-type: none"> <li>• TWD 480,000 (~USD 15,500) for 2 years.</li> <li>• 2-month internship in leading companies.</li> <li>• Pre-employment opportunity in leading companies</li> </ul> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>• Actively participate in academia and industry collaboration.</li> <li>• Closely engage with top professors in NTU EECS.</li> <li>• Internship and job offer opportunities from global leading companies.</li> </ul> <p><b>Additional notes:</b></p> <ul style="list-style-type: none"> <li>• Students who apply for the fellowship are required to download and complete the application form.</li> <li>• Top Talents have the opportunity to receive BOTH</li> </ul>

EECS Global Elite Cultivation Fellowship and International Student Scholarship by EECS.

**Name: International Student Scholarship by College of Electrical Engineering and Computer Science of National Taiwan University**

**Amount:**

- For doctoral student: NTD \$16,000 monthly living cost.
- For MS student: NTD \$12,000 monthly living cost

**Additional notes:**

- Students awarded with scholarship for 1 semester will receive scholarship for no more than 5 months; Students awarded with scholarship for 1 academic year will receive scholarship for no more than 10 months.
- The exact number of awardees and awarded periods will be subject to the funding conditions of each year.
- Prospective students and Current students can apply for the College scholarship after registration under the application process announced by the College of EECS, NTU.

\*In addition to the College Scholarship, please refer to the following website for the information of NTU Scholarships:

<https://admissions.ntu.edu.tw/apply/scholarships/>

Scholarship  
from NTU

**Undergraduate Students:**

- NTU International Undergraduate Student Scholarship

**Graduate Students:**

- Outstanding International Graduate Student Scholarship
- NTU Outstanding PhD Student Scholarship
- Scholarship for Latin America and Caribbean Project
- NTU Loyalty Award
- NTU Scholarship for Central and Eastern

**European Countries**

- Please refer to NTU Overseas Student Admissions >> Apply - Degree & Non-Degree Admissions >>

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Scholarships – Degree Admissions for detailed information.

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# Graduate Institute of Electronics

## Engineering

Master's Degree

2025/2026 First Semester Second Round

Department info

Application requirements

### About the course

#### Curriculum planning

Candidates for the M.S. degree in Electronics Engineering are required to complete 24 credit hours.

Each student should choose a particular area of interest from the four specialized groups: the Digital Integrated Circuits and Systems (Digital ICS) Group, the Analog/Mixed-mode Integrated Circuits and Systems (Analog/Mixed-mode ICS) Group, the Nanoelectronics (NE) Group, or the Electronic Design Automation (EDA) Group, and take multiple-choice required courses follow the regulations of each group.

The regulations of multiple-choice required courses are listed below:

- **Digital ICS:** None.
- **Analog/Mixed-mode ICS:** None.
- **Nanoelectronics:** Take at least one course from the following five:
  1. 921 U7110/Semiconductor Devices and Physics/3
  2. 921 U0880/Solid-State Physics I/3
  3. 921 U7120/IC Engineering/3
  4. 943 U0680/Advanced IC Devices and Technologies/3
  5. 943 U0690/Schematic MOS Devices/2
- **EDA: Take at least two courses from the following seven:**
  1. 921 U2110/Algorithms/3
  2. 943 U0240/Computer-Aided VLSI System Design/3
  3. 943 Department info Application requirements U0010/VLSI Testing/3
  4. 921 U1980/Computer Aided Analysis & Optimization of Integrated

Circuit /3

5. 943 U0280/Physical Design for Nanometer ICs/3
6. 943 U0300/ Logic Synthesis and Verification/3
7. 942 U0640/Convex Optimization Signal/3

At least 12 credit hours should be taken in the courses from one's specialized group, which needs to be approved by one's thesis advisor.

Required courses (not included in the 24 credit hours): Thesis (M.S.): 0; Seminar: 0; Special Project: 1; Department Colloquium (I): 1; Department Colloquium(II): 1.

#### Future map

Further education, obtaining employment in a private enterprise, being a teacher, etc.

## **Department info**

#### Web URL

<https://gjee.ntu.edu.tw/en/>

#### Introduction

The Graduate Institute of Electronics Engineering consists of four research groups: Digital Integrated Circuits and Systems (Digital ICS), Analog/Mixed-mode Integrated Circuits and Systems (Analog/Mixed-mode ICS), Nano-Electronics (NE), and Electronic Design Automation (EDA). In addition to learning from lectures, students can work on multidisciplinary research projects or cooperate with industry to achieve their research goals.

## **Contact**

#### **Administration Staff**

Name: Ms. Carol Wu

Telephone Number:33663529

Email:carolwu@ntu.edu.tw

# Graduate Institute of Electronics

## Engineering

Master's Degree

2025/2026 First Semester Second Round

Department info	Application requirements
Language of instruction	English-taught program (Sufficient English courses to meet graduation requirements)
Minimum language proficiency requirements	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• English proficiency certificate at CEFR (B2 or above) (Please refer to English Proficiency Test Comparison Chart)</li> <li>• General English Proficiency Test (GEPT) High-Intermediate or above</li> <li>• IELTS 5.5 or above</li> <li>• TOEFL (iBT) 72 or above</li> <li>• TOEIC 785 or above</li> <li>• Cambridge English First (FCE) or above</li> <li>• Aptis General Overall CEFR B2 or above</li> <li>• BEST Test of English Proficiency 200 or above</li> <li>• TOEFL ITP 543 or above</li> </ul> <p><b>English language test waivers:</b></p> <ul style="list-style-type: none"> <li>• Not required for applicants from English-speaking countries</li> <li>• Not required for applicants whose previous degree is from English-speaking countries</li> <li>• Not required for applicants whose previous degree is entirely taught in English</li> </ul>
Department's recommended language skills	Minimum language proficiency requirements
Application documents	<ul style="list-style-type: none"> <li>• Passport or ID</li> <li>• Alien Resident Certificate (ARC) (if applicable)</li> <li>• Graduation Certificate of highest degree awarded -</li> </ul>

	<p>Original version</p> <ul style="list-style-type: none"> <li>• Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Original version</li> <li>• Graduation Certificate of highest degree awarded - Translated version</li> <li>• Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Translated version</li> <li>• Financial Statement</li> </ul>
Documents required by department	<ul style="list-style-type: none"> <li>• Study proposal [Details]</li> <li>• Recommendation letter x 2</li> </ul>
Interview / Oral exam	None
Written exam	None
Additional notes	None
Scholarship from college or department	<p><b>Name: EECS Global Elite Cultivation Fellowship</b></p> <p><b>Amount:</b></p> <ul style="list-style-type: none"> <li>• TWD 480,000 (~USD 15,500) for 2 years.</li> <li>• 2-month internship in leading companies.</li> <li>• Pre-employment opportunity in leading companies</li> </ul> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>• Actively participate in academia and industry collaboration.</li> <li>• Closely engage with top professors in NTU EECS.</li> <li>• Internship and job offer opportunities from global leading companies.</li> </ul> <p><b>Additional notes:</b></p> <ul style="list-style-type: none"> <li>• Students who apply for the fellowship are required to download and complete the application form.</li> <li>• Top Talents have the opportunity to receive BOTH EECS Global Elite Cultivation Fellowship and International Student Scholarship by EECS.</li> </ul> <p><b>Name: International Student Scholarship by College of Electrical Engineering and Computer Science of National</b></p>

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## Taiwan University

### Amount:

- For doctoral student: NTD \$16,000 monthly living cost.
- For MS student: NTD \$12,000 monthly living cost

### Additional notes:

- Students awarded with scholarship for 1 semester will receive scholarship for no more than 5 months; Students awarded with scholarship for 1 academic year will receive scholarship for no more than 10 months.
- The exact number of awardees and awarded periods will be subject to the funding conditions of each year.
- Prospective students and Current students can apply for the College scholarship after registration under the application process announced by the College of EECS, NTU.

\*In addition to the College Scholarship, please refer to the following website for the information of NTU Scholarships:

<https://admissions.ntu.edu.tw/apply/scholarships/>

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Scholarship  
from NTU

### Undergraduate Students:

- NTU International Undergraduate Student Scholarship

### Graduate Students:

- Outstanding International Graduate Student Scholarship
- NTU Outstanding PhD Student Scholarship
- Scholarship for Latin America and Caribbean Project
- NTU Loyalty Award
- NTU Scholarship for Central and Eastern

### European Countries

- Please refer to NTU Overseas Student Admissions >> Apply - Degree & Non-Degree Admissions >> Scholarships – Degree Admissions for detailed information.

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NTU scholarships.

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# Graduate Institute of Networking and Multimedia

Master's Degree

2025/2026 First Semester Second Round

Department info

Application requirements

## About the course

### Curriculum planning

- Course Information

[https://www.inm.ntu.edu.tw/en/CourseInformation/course1\\_2](https://www.inm.ntu.edu.tw/en/CourseInformation/course1_2)

- Regulations and Requirements

[https://www.inm.ntu.edu.tw/en/CourseInformation/course1\\_1](https://www.inm.ntu.edu.tw/en/CourseInformation/course1_1)

#### 1. Required Courses

- (1) Seminar (should be taken for at least 2 semesters)
- (2) Special project (selective for the first semester, required from the second semester on, at least 2 semesters before graduation.)
- (3) Master thesis (must be taken during the last semester of study)

2. To graduate, each GINM master student has to earn at least 24 credits (excluding master thesis, special project and seminar). Among these 24 credits, at least 6 should be from the multimedia or networking category, and at least 3 from the other two categories. One course cannot be counted multiple times to satisfy the aforementioned requirement.

### Future map

- Opportunities of Advanced Studies

Master students of the GINM can pursue advanced studies in various disciplines, such as electrical engineering, computer science, electro-optical engineering, communication engineering, electronics engineering, information management, arts, drama and theatre, library and information science.

- Opportunities of Career

Potential career paths of graduate students in GINM include fields such as electrical engineering, electronics engineering, communication engineering, IC design, software development, information service, electronic commerce, video & audio technologies, digital publications and electronic education.

## Department info

### Web URL

<https://www.inm.ntu.edu.tw/?locale=en>

### Introduction

The research mission of GINM lies in academic innovation and industrial application, and particularly in interdisciplinary collaboration. In order to narrow the gap between academics and industry, GINM designs its curriculum focusing on major areas including Networking, Multimedia, Data Science & Artificial Intelligence, and Systems & Applications. The goal is to educate and train high level talent with advanced technology to meet the needs of the country in advancing national information infrastructure and developing networking and multimedia industry. GINM actively cooperates with the industry to increase the applicability of academic research and assist in advancing research capabilities of the industry while also encouraging innovation and entrepreneurship.

## Contact

### **Administration Staff**

Name: Ms. Anita Ho

Telephone Number:33664888#228

Email:anitaho@csie.ntu.edu.tw

# Graduate Institute of Networking and Multimedia

Master's Degree

2025/2026 First Semester Second Round

Department info	Application requirements
Language of instruction	English-taught program (Sufficient English courses to meet graduation requirements)
Minimum language proficiency requirements	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• English proficiency certificate at CEFR (B2 or above) (Please refer to English Proficiency Test Comparison Chart)</li> <li>• General English Proficiency Test (GEPT) High-Intermediate or above</li> <li>• IELTS 5.5 or above</li> <li>• TOEFL (iBT) 72 or above</li> <li>• TOEIC 785 or above</li> <li>• Cambridge English First (FCE) or above</li> <li>• Aptis General Overall CEFR B2 or above</li> <li>• BEST Test of English Proficiency 200 or above</li> <li>• TOEFL ITP 543 or above</li> </ul> <p><b>English language test waivers:</b></p> <ul style="list-style-type: none"> <li>• Not required for applicants from English-speaking countries</li> <li>• Not required for applicants whose previous degree is from English-speaking countries</li> <li>• Not required for applicants whose previous degree is entirely taught in English</li> </ul>
Department's recommended language skills	<p><b>Chinese:</b></p> <ul style="list-style-type: none"> <li>• Chinese proficiency certificate at CEFR (A2 or above) (Please refer to the Chinese Proficiency Test Comparison Chart)</li> </ul> <p><b>English:</b></p>

	<p>Need to provide one of the following English certificates:</p> <ul style="list-style-type: none"> <li>• IELTS 6.5or above</li> <li>• TOEFL (iBT) 83or above</li> <li>• TOEIC 850or above</li> </ul>
Application documents	<ul style="list-style-type: none"> <li>• Passport or ID</li> <li>• Alien Resident Certificate (ARC) (if applicable)</li> <li>• Graduation Certificate of highest degree awarded - Original version</li> <li>• Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Original version</li> <li>• Graduation Certificate of highest degree awarded - Translated version</li> <li>• Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Translated version</li> <li>• Financial Statement</li> </ul>
Documents required by department	<ul style="list-style-type: none"> <li>• Chinese proficiency</li> <li>• Grade explanation</li> <li>• Academic ranking or percentage in English (if applicable)</li> <li>• Research Proposal</li> <li>• Recommendation letter x 2</li> </ul>
Interview / Oral exam	<p>The committee will review the submitted materials.</p> <p>The applicant may be invited to an interview if necessary.</p>
Written exam	None
Additional notes	<p>Confirmation of your advisor comes after being admitted to NTU and is not mandatory for your application. Nevertheless, you are encouraged to enrich your Research Proposal by discussing your research direction with professors you are genuinely interested in and highlighting the discussion results.</p> <p>You can also list up to three professors and the corresponding research directions that interest you, regardless of whether you have discussed with them or not. Please visit our our website for faculty research expertise.</p>
Scholarship from college or department	<p><b>Name: EECS Global Elite Cultivation Fellowship</b></p> <p><b>Amount:</b></p>

- TWD 480,000 (~USD 15,500) for 2 years.
- 2-month internship in leading companies.
- Pre-employment opportunity in leading companies

**Advantages:**

- Actively participate in academia and industry collaboration.
- Closely engage with top professors in NTU EECS.
- Internship and job offer opportunities from global leading companies.

**Additional notes:**

- Students who apply for the fellowship are required to download and complete the application form.
- Top Talents have the opportunity to receive BOTH EECS Global Elite Cultivation Fellowship and International Student Scholarship by EECS.

**Name: International Student Scholarship by College of Electrical Engineering and Computer Science of National Taiwan University**

**Amount:**

- For doctoral student: NTD \$16,000 monthly living cost.
- For MS student: NTD \$12,000 monthly living cost

**Additional notes:**

- Students awarded with scholarship for 1 semester will receive scholarship for no more than 5 months; Students awarded with scholarship for 1 academic year will receive scholarship for no more than 10 months.
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Scholarship  
from NTU

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- NTU International Undergraduate Student Scholarship

**Graduate Students:**

- Outstanding International Graduate Student Scholarship
- NTU Outstanding PhD Student Scholarship
- Scholarship for Latin America and Caribbean Project
- NTU Loyalty Award
- NTU Scholarship for Central and Eastern

**European Countries**

- Please refer to [NTU Overseas Student Admissions >> Apply - Degree & Non-Degree Admissions >> Scholarships – Degree Admissions](#) for detailed information.

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# Graduate Institute of Biomedical Electronics and Bioinformatics

Master's Degree

2025/2026 First Semester Second Round

Department info

Application requirements

## About the course

### Curriculum planning

- Requirement course:  
Fundamentals of Biomedical, Engineering Introduction to Biomedical, Informatics Thesis (m. S.) Seminar Special, Project Department Colloquium
- Elective course:  
Biomedical Signal Processing, Medical Microsensor, Medical Imaging Systems, Micro Sensor, Fundamentals of Molecular Imaging, Introduction of Biochip Technologies, Principles of Medical Ultrasound, Genechips Methods and Data Analysis, Magnetic Resonance Imaging: Principles and its Applications, Optical Techniques in Diagnosis, Magnetic Resonance Imaging Lab Micro & Nano, Biomedical Analytical, Magnetic Resonance Imaging in Medicine, Nano/micro Engineering in Biomedicine, Magnetic Resonance Spectroscopy and Physiological Imaging, Virtual Instrument for Biomedicine, Biomedical Optical Spectroscopy and Imaging Techniques, Patent on Biomedical Engineering, Stochastic Signals and Systems, Medical Device Quality System, Oncologic Imaging Detection and Estimation Theory, Modern Spectral Analysis, Advanced Medical Instrument, Medical Image Investigation, Solid State Devices, Special Topics on Medical Imaging Biological Physics, Ultrasound Imaging in Medicine, Bio-MEMS and Microfluidics, Probability and Statistics for Biomedical Engineering, Biomedical Electronic Technologies and Clinical Observations, Super-resolution microscopy techniques, Patent Opposition and Infringement, Distinct Principles in the Diagnoses of Laboratory and Traditional Medicine, Simulation and Computation for Biosystems, Bioenergetics and Metabolic Engineering, Introduction to Mechanobiology, Special Topics in Innovative Integration of Medicine and EECS, Entrepreneurship, New Venture Creation and Venture Capital,



Technology Innovation and Startup, Bioinformatics and Computational Molecular Biology Medical Information System, Algorithms for Analyzing Biological Sequences, Computer Vision, Stochastic Processes and Applications Advanced Computer Vision, Mathematical Modeling and Systems Biology, Computer Aided Analysis & Optimization of Integrated Circuit, Special Topics on Graph Algorithms, Metabolomics, Bioinformatics Data Mining Algorithms for Bioinformatics, Game Theory Systems Analysis on Metabolomics, Mathematical Modeling and Systems Biology, Medical Image Processing, Mathematics Fundamentals for Systems Biology Advanced Computer-aided Drug Design, Cancer Systems Biology, Proteomics Data Analysis, Advances in Computational and Systems Biology

- Additional requirement course:

Applied Electricity Physiology Introduction of Biological Sciences URL:  
[http://coursemap.aca.ntu.edu.tw/course\\_map\\_all/class.php?code=945M](http://coursemap.aca.ntu.edu.tw/course_map_all/class.php?code=945M)

#### Future map

Teacher

Researcher

Employees in the relevant industries

## Department info

#### Web URL

[https://www.bebi.ntu.edu.tw/?page\\_id=79&lang=en](https://www.bebi.ntu.edu.tw/?page_id=79&lang=en)

#### Introduction

This graduate institute emphasizes the integration of multiple disciplines, exploration of advanced information and electronic technologies and application of these technologies to critical biomedical problems. With synergistic efforts, the ultimate goal is to improve health care quality and to enhance understanding of fundamental sciences. Our main research directions include nano-bio technologies, bioinformatics, medical informatics, biochip and biomedical microelectronics systems, and biophotonics.

## Contact

#### **Administration Staff**

Name: Ms. Lin Syue Yu

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**Professor**

Name: Lin, Chih-Ting

Telephone Number:

Email:timlin@ntu.edu.tw

# Graduate Institute of Biomedical Electronics and Bioinformatics

Master's Degree

2025/2026 First Semester Second Round

Department info	Application requirements
Language of instruction	English-taught program
Minimum language proficiency requirements	<p><b>English:</b></p> <ul style="list-style-type: none"> <li>• English proficiency certificate at CEFR (B2 or above) (Please refer to English Proficiency Test Comparison Chart)</li> <li>• General English Proficiency Test (GEPT) High-Intermediate or above</li> <li>• IELTS 5.5 or above</li> <li>• TOEFL (iBT) 72 or above</li> <li>• TOEIC 785 or above</li> <li>• Cambridge English First (FCE) or above</li> <li>• Aptis General Overall CEFR B2 or above</li> <li>• BEST Test of English Proficiency 200 or above</li> <li>• TOEFL ITP 543 or above</li> </ul> <p><b>English language test waivers:</b></p> <ul style="list-style-type: none"> <li>• Not required for applicants from English-speaking countries</li> <li>• Not required for applicants whose previous degree is from English-speaking countries</li> <li>• Not required for applicants whose previous degree is entirely taught in English</li> </ul>
Department's recommended language skills	<p><b>Chinese:</b></p> <ul style="list-style-type: none"> <li>• Chinese proficiency certificate at CEFR (A2 or above) (Please refer to the Chinese Proficiency Test Comparison Chart)</li> </ul> <p><b>English:</b></p>

	<ul style="list-style-type: none"> <li>English proficiency certificate at CEFR (C1 or above) (Please refer to English Proficiency Test Comparison Chart)</li> </ul>
Application documents	<ul style="list-style-type: none"> <li>Passport or ID</li> <li>Alien Resident Certificate (ARC) (if applicable)</li> <li>Graduation Certificate of highest degree awarded - Original version</li> <li>Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Original version</li> <li>Graduation Certificate of highest degree awarded - Translated version</li> <li>Full Transcript of highest degree awarded (including records of each year and explanation of grading system) - Translated version</li> <li>Financial Statement</li> </ul>
Documents required by department	Recommendation letter x 2
Interview / Oral exam	None
Written exam	None
Additional notes	None
Scholarship from college or department	<p><b>Name: EECS Global Elite Cultivation Fellowship</b></p> <p><b>Amount:</b></p> <ul style="list-style-type: none"> <li>TWD 480,000 (~USD 15,500) for 2 years.</li> <li>2-month internship in leading companies.</li> <li>Pre-employment opportunity in leading companies</li> </ul> <p><b>Advantages:</b></p> <ul style="list-style-type: none"> <li>Actively participate in academia and industry collaboration.</li> <li>Closely engage with top professors in NTU EECS.</li> <li>Internship and job offer opportunities from global leading companies.</li> </ul> <p><b>Additional notes:</b></p> <ul style="list-style-type: none"> <li>Students who apply for the fellowship are required to</li> </ul>

download and complete the application form.

- Top Talents have the opportunity to receive BOTH EECS Global Elite Cultivation Fellowship and International Student Scholarship by EECS.

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Scholarship  
from NTU

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**European Countries**

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