

Nano-Photonics Laboratory Recruiting Postgraduate students (Master, Ph.D)

[The online application deadline(tentative): Nov. 15, 2025]

Advisor (Group Leader): Prof. Heongkyu Ju
Department of Physics, College of Bionano Technology, Gachon University, Korea
- Group Homepage: <http://npl.gachon.ac.kr>

We are recruiting prospective students who will work in the Nanophotonics Laboratory, Gachon University, Korea, for the Ph.D or Master degree. The candidate students will start his/her work, March 1, 2026. The research areas will be including but not limited to:

- (1) Photodetectors with ultrahigh sensitivity using plasmon-exciton coupling induced hot carriers
 - (2) Plasmonic optical devices for biomedical immunoassay of diseases biomarker for POCT application
 - (3) Hydrogen based energy harvest using plasmonic catalysts
- Individual members of my group will be guided to conduct research for publication in SCI(E) journals for his/her graduation
 - A list of benefits for a postgraduate student
 - ✓ Full scholarship that covers the tuition fee (5,000 USD per semester for Ph.D or Master course) during whole period of the degree course
 - ✓ Monthly salary during the degree course:
 - 1,200,000 Korean won (861 USD) (plus α) per month for a Ph.D student
 - 1000,000 Korean won (718 USD) (plus α) per month for a MS student
 - ✓ Expected starting date of the course: March 1, 2026
 - ✓ Expected duration of the course (minimum of 3 years for Ph.D, 2 years for Master degree)
 - ✓ Incentives (extra-income) will be given depending on a student's progress from research grants
 - ✓ Papers published by students during the course will get a candidate student University incentive (e.g. 300,000 won for one SCI paper).
 - ✓ A desk, a chair and a personal computer with an internet network will be offered on an individual basis
 - ✓ Please refer to the group website (<http://npl.gachon.ac.kr>) for additional information involving the lab. equipments, facilities that you can access for your research
 - ✓ Applicants who have background knowledge of physics, material science and chemistry, electrical engineering, electronics are encouraged to apply
 - Online application can be made (application fee of about 120,000 Korean won) at <https://bank1.jinhakapply.com/ApplyV8/Wonseo/Yui/Yui100262.aspx?UnivServiceID=100262&GunID=4>
 - The English proficiency test score (TOEFL IBT 71, TOEFL PBT 530, or IELTS 5.5): A candidate unable to submit it within the application period can be admitted on a condition that he/she needs to submit it within one semester of entrance (Feb. 25).
 - A successful candidate will make an online-application by Nov. 15, 2025 (tentative deadline).
 - For more information about application and research activities, please feel free to contact me to inquire any questions by emailing Prof. Heongkyu Ju at batu@gachon.ac.kr