

Shibaura Institute of Technology Robotics Laboratories Research Exchange Program

Date	Place	Partner Organization	Students' Major and Grade	Participants' Information	SIT Instructor
2026/02/17 ~2026/02/27	Japan	Pusan National University	<ul style="list-style-type: none"> •Department of Electrical Engineering, Electrical Engineering and Robotics, Electrical Engineering and Computer Science •Undergraduate 2nd grade, Undergraduate 3rd grade, Undergraduate 4th grade, Master 1st grade, Master 2nd grade 	(SIT) Students 3, Student Staff 8, Professor 3 (Pusan National University) Students 8, Professor 1	YOSHIMI Takashi(Electrical and Electronic Engineering and Robotics), YAJIMA Ryoike(Electrical and Electronic Engineering and Robotics), ABIKO Satoko(Electrical and Electronic Engineering and Robotics), ANDOU Yoshinobu(Electrical and Electronic Engineering and Robotics), YONEMITSU Fumiya(Electrical Engineering and Robotics)



Image1 Group photo after special lecture

The PNU global PBL program was held at the Shibaura Institute of Technology's Toyosu campus from Tuesday, February 17th to Friday, February 27th, 2026. Participants from Shibaura Institute of Technology consisted of three students from the Electrical and Electronic Engineering program and the Department of Electrical Engineering. Eight students from Pusan National University participated. During the tour, participants visited the research facility in Odaiba, where they viewed bio-experimental facilities, robot motion data, and digital human technology. For the lab work, participants were divided into three groups to ensure a mix of Shibaura Institute of Technology and Pusan National University students. Members of each group were assigned to one of three laboratories (Yoshimi Laboratory, Hasegawa-Yajima Laboratory, and Ando Laboratory) to experience lab work. The Yoshimi Laboratory group worked on the theme of "Realizing work movements using a small robotic arm," and tackled the handling of multiple cups (stacking cups) using a manipulator. The group from the Hasegawa/Yajima Laboratory worked on the theme of "Realizing basic control and movement of autonomous mobile robots," working on trajectory tracking control of mobile robots and point cloud processing using LiDAR sensors, achieving human tracking by mobile robots. The Ando Laboratory worked on the theme of "Development of mobile robots and their functional expansion," developing a line-tracing robot and incorporating robot movement technology using image processing. They then used 3D-LiDAR and 2D-LiDAR to generate maps of indoor environments. At the final presentation, participants were able to show the details of the lab work carried out by the three groups and show some demonstrations.



Image2 Lab. Work (1)



Image3 Lab. Work (2)



Image4 Lab. Tour



Image5 Final Presentation