

List of TTI Laboratories Accepting Research Intern Students in Academic Year 2025 as of February 19

| | Laboratory | Supervisor(s) Main supervisor in bold | Intern Student's Academic Year at the start of Internship *1 | | | Duration of Internship(days) | | | Internship Months (for academic year 2025) | | | | | | | | | Research Overview: | Requirements for Intern Students : | |
|---|--|--|--|---|---|------------------------------|-------|--------------|--|-----|--------|-----|-----|-----|--------|----------|-----|---|--|--|
| | | | B4 | M | D | 30-60 | 61-90 | 91 or longer | Jun 2025 | Jul | Aug *2 | Sep | Oct | Nov | Dec *2 | Jan 2026 | Feb | | | Mar |
| A | Intelligent Information Media No Longer Available | Prof. Norimichi UKITA | N/A | ● | ● | N/A | N/A | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | <ul style="list-style-type: none"> ➤ Research topics: image processing, image synthesis, image recognition, computer vision, robotics (robot arm manipulation) ➤ Research discussion, coding, experiments, and research paper writing | <ul style="list-style-type: none"> ➤ Programming (Python) –Advanced level ➤ Advanced knowledge of machine learning |
| B | Quantum Interface | Prof. Itaru KAMIYA, Assist. Prof. Ronel ROCA | ● | ● | ● | ● | N/A | N/A | ● | ● | ● | N/A | ● | ● | ● | N/A | N/A | N/A | <ul style="list-style-type: none"> ➤ Fabrication of semiconductor quantum structures and the characterization of their electronic properties (mainly experimental) | <ul style="list-style-type: none"> ➤ Fundamental knowledge (3rd year undergraduate level) in quantum mechanics, statistical mechanics, solid state physics, and thermodynamics are required. ➤ Preference will be given to those with knowledge in semiconductors or surface reaction. ➤ Suited for students majoring Physics, Electronic Engineering, Materials, or Chemistry. |
| C | Laser Science | Prof. Takao FUJI, Lecturer Tetsuhiro KUDO | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | <ul style="list-style-type: none"> ➤ Development of ultrafast lasers for infrared imaging and multi-photon microscopy ➤ Manipulation of molecules by mid-infrared lasers | <ul style="list-style-type: none"> ➤ Basic knowledge of optics ➤ Basic knowledge of computer programming |
| D | Optical Functional Materials | Assoc. Prof. Takenobu SUZUKI | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | N/A | ● | N/A | <ul style="list-style-type: none"> ➤ Search for new glass materials for optical fibers ➤ Preparation of specialty optical fibers ➤ Numerical simulation of light propagation in optical fibers | <p>Meet at least one of the following requirements:</p> <ul style="list-style-type: none"> ➤ Fundamental knowledge of materials science and engineering (especially inorganic materials), solid state physics, optics. ➤ Laboratory experience on glass preparation and optical measurements. ➤ Knowledge of numerical simulation with MATLAB/Python. | |
| E | Surface Science | Prof. Masamichi YOSHIMURA | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | <ul style="list-style-type: none"> ➤ Growth and characterization of 2D nanomaterials such as graphene and TMDs for device applications ➤ Fabrication of transparent conductive films using carbon nanomaterials ➤ Nanoscale observation of nanomaterials using scanning probe microscope and other microscopies ➤ Tip enhanced Raman spectroscopy on nanomaterials ➤ Synthesis and evaluation of the catalysts for water electrolysis ➤ Fabrication and evaluation of the electrode materials for polymer electrolyte fuel cell ➤ Observation of the morphology change of metal nanoparticles by electrochemical atomic force microscopy | <ul style="list-style-type: none"> ➤ Fundamental knowledge of physics and chemistry | |

*1 B4: Undergraduate students in their fourth year, M: Master's students, D: Doctoral students

*2 No research activities/supervision provided during 10-day summer holidays in August, and 2-week winter holidays in December-January.

*3 An internship period of 180 days or more is preferable, while a shorter period can be accepted subject to an interview.

TTI scholarship applies for the first 90 days spent for internship activities at TTI. From the 91st day, the laboratory may provide the scholarship.

Applicants for the internship longer than 90 days are required to meet higher standards in the selection criteria.

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