## **UTokyo Amgen Scholars Program 2024**

## Host Laboratory and Research Topic

Name of Faculty Member (Title)	Keiichi NAKAGAWA (Associate Professor)
Name of Graduate School/ Faculty/ Institute	Graduate School of Engineering
Research Topic & Description	<ol> <li>Ultrafast imaging: you will visualize the acoustic interaction with biological cells (pico- to nano-second timescales) to understand the therapeutic effects on the body in noninvasive acoustic wave therapy.</li> <li>Biophotonics: you will develop a new method to produce acoustic waves inside the body to manipulate the photons' behavior for optical biotechnologies.</li> <li>Biophysics: you will investigate the interactions between physical energies (photon and phonon) and biological cells/tissues to control the functions of our body.</li> </ol>
Academic Requirements & Expectations	1) Field(s) of Study
	None
	2) Knowledge/ Skill/ Proficiency
	Knowledge of Bioengineering and Optical Engineering is advantageous but not mandatory at the time of application. Once selected, I will recommend a specific field of study tailored to the student's interests and background and provide relevant study materials.
	3) Academic Background and Research Experience
	None
Lab Website & Relevant Information	https://sites.google.com/view/nakagawagroup/
	http://www.bmpe.t.u-tokyo.ac.jp/en/index.html
Campus / Location	Hongo / Yayoi
Area of Research	Bioengineering
	Biotechnology
	Neuroscience