

2019 Nagaoka Summer School for Young Engineers (NASSYE)

List of Research Topics

Bioengineering

Department website: <http://bio.nagaokaut.ac.jp/~en/>

Research Topic	Introduction to bioengineering techniques in animals and plants
Instructor	TAKIMOTO, Koichi
Assistant Instructor	SHIMODA, Yasushi / SATO, Takeshi / ONUMA, Kiyoshi / NISHIMURA, Taisuke
Contents	This short internship course is intended for those who are interested in higher eukaryotic organisms and related research techniques. The primary goal of the course is to provide for participants to gain hand-on experience with basic cell biological, molecular biological and genetic techniques. Five faculty members in the Department of Bioengineering act as supervisors for participants. Participants may choose one or more of the research area/topics by these faculty members for their activities during this internship. For further information about the research areas/topics, visit our departmental website (http://bio.nagaokaut.ac.jp/~en/).
Required skills/ Remarks	Selected participants will be asked about their research interests. This information will be used to determine laboratories where each participant may perform experimental work. We may also provide study/reading materials necessary for effective engagement in the laboratory work.

Research Topic	Utilization of microbe in industry
Instructor	OGASAWARA, Wataru
Assistant Instructor	SHIDA, Yosuke
Contents	1. Cultivation of microorganisms (yeast, filamentous fungi, and bacteria) that are utilized in industry. 2. Analysis of their activity especially focused on an enzyme.
Required skills/ Remarks	