

Opportunity title: Artificial Lighting in Growing Crops for Space Farming

URL: "How bright is the future of space food?" < <https://www.hawaii.edu/news/2017/02/23/how-bright-is-the-future-of-space-food/> >.

Description: NASA is keenly interested in and has been conducting research on growing crops in space as a source of food for astronauts. This project involves growing crops under different kinds of artificial lighting. It offers a choice of working in several research areas: 1) Comparing the effectiveness of high output fluorescent lighting and light-emitting diode (LED) lighting; 2) Comparing the effectiveness of different kinds of LED lighting; and 3) Growing different kinds of crops. It is anticipated that results from this project would provide information on the effects of light quality on crop growth and the use of alternative crops in space.

Requirements: Qualified students should have interest and background knowledge in biology, botany, plant science, horticulture, engineering, or related fields.

Responsibilities: The aim of the project is to provide the student with research and learning opportunities related to space biology, controlled environment agriculture, and horticulture.

Application deadline: Rolling

Location (specific): University of Hawaii at Manoa

Relevant major or college: Biology, botany, plant science, horticulture, engineering, or related fields.

Application: Apply with CV and cover letter to Dr. Kent Kobayashi, Associate Professor, Tropical Plant & Soil Sciences Dept., University of Hawaii at Manoa. E-mail: kentko@hawaii.edu. < <http://manoa.hawaii.edu/ctahr/tpss/faculty?id=21> >.