



Picture Yourself

- developing more nutritious or otherwise superior crops by genetic engineering
- restoring parts of the environment by bioremediation
- building a cutting-edge farm on which you culture marine biotechnology crops
- modifying plant crops to make them resistant to pests without the use of harmful chemicals
- becoming a biology teacher with the latest information on biotechnology to share



Want More Information?

To learn more about Plant and Environmental Biotechnology, visit www.ctabr.hawaii.edu/acad

For other pertinent information regarding being a student at UH-Mānoa, visit the UH website: www.hawaii.edu.

You may also contact . . .

For admission:
Office of Admissions and Records
University of Hawai'i at Mānoa
2600 Campus Road, QLC 010
Honolulu, HI 96822 USA
Phone: 808-956-8975
Toll Free in USA: 800-823-9771
Fax: 808-956-4148
E-mail: ar-info@hawaii.edu
Web: www.hawaii.edu/admrec

For financial aid:
Financial Aid Services
University of Hawai'i at Mānoa
2600 Campus Road, QLC 112
Honolulu, HI 96822 USA
Phone: 808-956-7251
Fax: 808-956-3985
E-mail: finaid@hawaii.edu
Web: www.island.hawaii.edu/finaid

For employment opportunities:
Career Development and Student Employment Office
University of Hawai'i at Mānoa
2600 Campus Road, QLC 212
Honolulu, HI 96822 USA
Phone: 808-956-7007
Fax: 808-956-4082
E-mail: cdse@hawaii.edu
Web: <http://cdse.hawaii.edu>

For housing (on and off campus):
Student Housing Services
2555 Dole Street, Frear Hall
Honolulu, HI 96822 USA
Phone: 808-956-8177
Fax: 808-956-5995
E-mail: uhmsh@hawaii.edu
Web: www.housing.hawaii.edu

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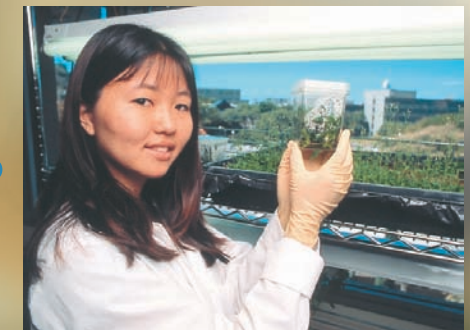
**Accept the
CTAHR
Challenge!**
Be Where
the Action Is
in Science and
Technology!
Join Us!

Office of Academic and
Student Affairs
Dr. Charles Kinoshita,
Associate Dean

Science
and
Technology
in
Action!

MAJOR

Plant and Environmental Biotechnology



Picture yourself...



Sound like
your vision
for the
future?

Then...

Plant and Environmental Biotechnology (PEB) is a new interdisciplinary Bachelor of Science degree program designed to educate students in the exciting area of biotechnology, which promises to be the predominant science of the early 21st century. Students may choose from five specializations:

Plant and Environmental Biotechnology Is for You!



- **General Biotechnology**—allows students to take the maximum range of elective courses to obtain an overview of biotechnology applications.
- **Environmental and Microbial Biotechnology**—offers classes pertinent to monitoring and reducing chemical and microbial contaminants in the human environment.
- **Plant Biotechnology**—presents the methods and objectives of plant tissue culture and genetic modification for agricultural or industrial purposes.
- **Insect and Pathogen Biotechnology**—provides training in technologies that protect plants under human management from attack by insects or diseases.
- **Aquaculture and Bioreactor Biotechnology**—focuses on the design and operation of artificial environments for efficient production of high-value compounds and organisms.

Work with Top Professors...

... and join an internationally recognized group of scholars that includes experts in plant, insect, and microbial genetic engineering, the microbial environment, pollution prevention, aquaculture biochemistry, and related areas who are graduates of such schools as UC-Davis, Arizona, Washington State, UC-Berkeley, and other top universities. Get to know and learn from these professionals through laboratory and field experiences and our unique lab rotation and senior thesis requirements.

Use Cutting Edge Technology...

... functional genomics, gene silencing, recombinant DNA technology, RNA hybridization, gas chromatography-mass spectrometry, high performance liquid chromatography, and more.



Team up with Award-Winning Students...

... recognized locally, nationally, and internationally for their achievements.

Open Doors to New Careers and Opportunities

All specialties prepare students for graduate school, and the **general biotechnology** option is specifically designed for students wishing to pursue professional school, such as teaching or medicine. The **environmental and microbial biotechnology** specialization prepares students for employment in environmental monitoring and natural environmental clean-up, or bioremediation. The **plant biotechnology** specialization prepares students to enter the agricultural biotechnology industries. The **insect and pathogen biotechnology** specialization prepares students to develop environmentally safe technologies to protect plants and agriculture from pest and pathogen attack. The **aquaculture and bioreactor biotechnology** specialization prepares students to participate in the increasingly technology-driven areas of bio-based industries such as aquaculture, marine biotechnology, and large-scale production of valuable organisms or biochemicals useful in the food, pharmaceutical, or medical industries.

For Fun and Friends

The College of Tropical Agriculture and Human Resources has numerous student organizations that provide you with the opportunity to meet new friends with interests similar to yours and participate in social, community-service, and field-related activities. Because this is a new undergraduate program, you might have the opportunity to help create a student organization designed especially for **PEB** majors.

Are You Prepared?

Students are strongly advised to be well grounded in science, especially chemistry and biology, and mathematics before entering the **Plant and Environmental Biotechnology** program. Upon entering the program, students will be assisted by academic advisors to identify their career objectives and select an appropriate specialization for study.



We're Here to Help

- *Contact the Plant and Environmental Biotechnology Program*
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Department of Molecular Biosciences and Bioengineering
College of Tropical Agriculture and Human Resources
University of Hawai'i at Mānoa
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Phone: 808-956-2012
Fax: 808-956-35642
E-mail: hako@hawaii.edu
Web: www.ctahr.hawaii.edu/acad

or

- Allene Chun, Advisor
Office of Academic and Student Affairs
College of Tropical Agriculture and Human Resources
University of Hawai'i at Mānoa
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