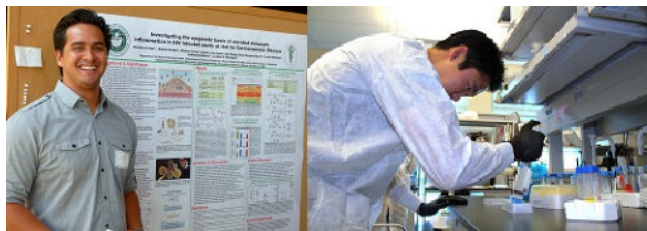


# JABSOM's Contribution to the STEM Workforce



## Mission

JABSOM's mission is to educate its students to be high-quality physicians, biomedical scientists and/or allied health professionals. Our vision is to *Maika'i Loa: Attain Lasting Optimal Health for All* (ALOHA). We encourage and support students to conduct research in biomedical and community health sciences with an aim to improve health outcomes, especially in heart disease, diabetes, cancer, in vitro fertilization, infectious diseases, mental health, respiratory diseases, and neurodegenerative disorders. We want to stimulate student interest early in pathways leading to biomedical and health science degrees and careers.

## JABSOM Website:

<https://jabsom.hawaii.edu>

## STEM Degree Programs

Master of Science (MS) or Doctor of Philosophy (PhD) in:

- Cell & Molecular Biology (MS or PhD)
- Developmental & Reproductive Biology (MS or PhD)
- Tropical Medicine/Infectious Diseases (MS or PhD)
- Quantitative Health and Clinical Research (MS)
- Communication Sciences & Disorders (MS)

Bachelor of Science (BS) in:

- Medical Technology

Programs and Certificate Programs in:

- Clinical Research (certificate)
- Communication Sciences & Disorders (certificate)
- Tropical Medicine (certificate)
- 'Imi Ho'ōla Post-Baccalaureate Program
- Medical Technology Post-Baccalaureate Clinical Training Program

Not considered STEM: Medicine (MD)

<https://jabsom.hawaii.edu/education/graduate-programs/>

## RESEARCH TRAINING PROGRAMS THROUGH JABSOM AND ITS PARTNERS

- T32 Training in Cardiovascular Research
- T32 Hawaii Advanced Training in Artificial Intelligence for Precision Nutrition Science Research
- T34 Maximizing Access to Research Careers (MARC) at University of Hawaii at Manoa and One Health Research Training Curriculum for Native Hawaiians and Pacific Students
- T37 Transdisciplinary Research Training for Native Hawaiians and Pacific Students
- R25 Consortium for Increasing Research and Collaborative Learning Experiences (CIRCLE)
- R25 Pacific High Schools STEP-UP to Biomedical Research
- INBRE V – Hawaii INBRE V and PATHway for Biomedical Careers Program
- The Queen's Hospital Summer Research Internship
- Hawaii Pacific Health Summer Student Research Program
- Hawaii Neuroscience Research Summer Internship



# JABSOM's Selected STEM Education Projects and Activities

We invest in the next generation of biomedical and clinical scientists. Our stem education projects can be grouped under three broad areas: research training programs for students, educational outreach programs for youth, and professional development for teachers. We provide a few illustrations of each below and encourage you to learn about all of our other work to encourage the health science pipeline.

## 1. Research Training Programs

The **Minority Health International Research Training (MHIRT)** Program is based in the Department of Tropical Medicine, Medical Microbiology & Pharmacology which offers exciting opportunities for UH Mānoa students to perform research projects in international locations.

Other key research programs include: Hawaii Advanced Training in Artificial Intelligence for Precision Nutrition Science Research (AIPRN), IDeA Networks of Biomedical Research Excellence (INBRE), Maximizing Access to Research Careers (MARC) at UHM, the Transdisciplinary Research Training for Native Hawaiians and Pacific Students, Pacific STEP-UP, and graduate student training in Cardiovascular Research.

<https://jabsom.hawaii.edu/research/trainees/>

## 2. Educational Outreach Programs for Youth

The **Hawaii/Pacific Basin Area Health Education Center (AHEC)**, led by Dr. Kelley Withy, relies on federal grant support from the United States Department of Health and Human Services (HHS) to inspire youth in Hawaii.

<http://www.ahec.hawaii.edu/>

AHEC's **Hawaii Pre-Health Career Corps** is a free year-round program for high school and college students who are interested in pursuing careers in health. Its purpose is to increase awareness about health careers, provide mentoring, shadowing and research experiences, and provide exposure to health careers. AHEC coordinates a speaker's bureau, tours of JABSOM, Teen Health Camps, and more.

<https://www.ahec.hawaii.edu/>



The **Department of Native Hawaiian Health** offers key educational programs such as their **Native Hawaiian Pathway to Medicine** and **Nānākuli Pathways to Health** programs. They connect with communities and support students with mentoring, service-learning, and training. Their efforts enable Native Hawaiian students to succeed in health professions and their research division aims to improve health outcomes among Native Hawaiians.

## 3. Professional Development for Teachers

**Teachers in our Molecular Biology Professional Development Program** make extra money during summer break with paid stipends and travel assistance for neighbor islands. Teachers get access to online content materials, hands-on lab training, top biomedical and clinical scientists, and work with fellow science teachers.

<https://ccr.jabsom.hawaii.edu/education/>

Our Office of Medical Education, Department of Medical Technology, and Department of Anatomy, Biochemistry and Physiology also offer amazing learning opportunities for teachers and students.

To learn more about these STEM education projects, please contact: Dr. Rachel Rivers at [rrivers@hawaii.edu](mailto:rrivers@hawaii.edu) or 808-692-0986

