

Aloha!



Serving Our Youth

Leslie Wilkins
MEDB, Vice President
Director, Women in Technology

Strengthen. Diversify. Honor.



maui economic development board, inc.

MISSION

To provide leadership and vision in our community for the responsible design and development of a strong, sustainable, and diversified economy for Maui County

VISION

A future in which abundant opportunities for rewarding employment are met by a qualified, resident workforce in Maui County, a community which honors its cultural heritage and natural environment

We are world class...





Strengthen. Diversify. Honor.

MEDB walking our talk...

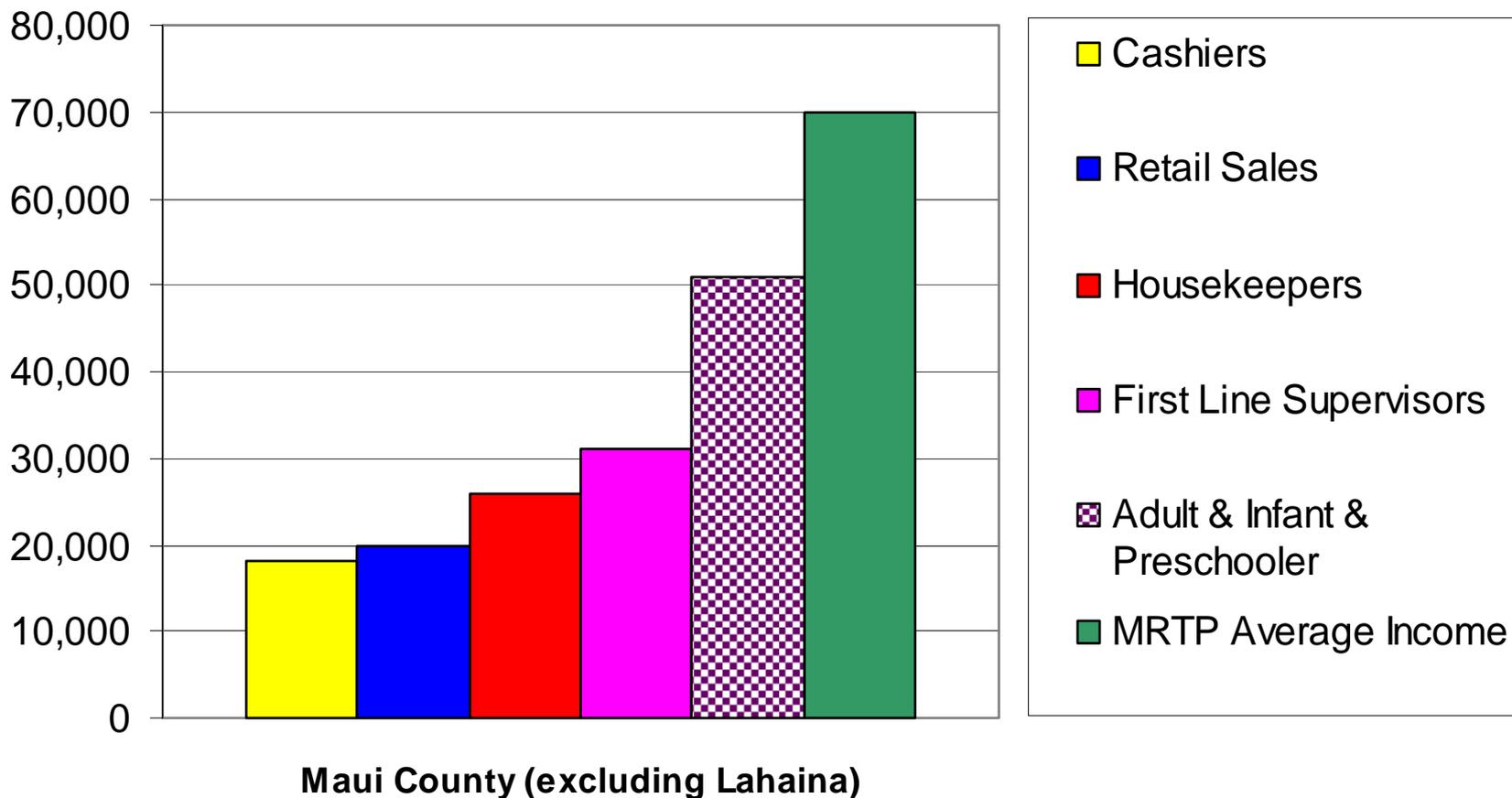


PV array on the rooftop of MEDB's Malcolm Center

Assets

- **1 of top 5 viewing locations in the world**
- **Suite of 11 Air Force and University of Hawaii telescopes**
 - **- AEOS: largest optical telescope in DoD system**
 - **- Faulkes Telescope**
- **Deep and near space applications, orbital debris tracking, Near Earth Asteroid Tracking, world-renowned solar research**
- **World-class industry in design, research, custom production of optics and sensors**
- **Imaging, simulation/modeling**
- **Maui High Performance Computing Center**
- **Pacific Disaster Center**
- **Multiple Growing Seasons**
- **Beta Site for Renewable Energy**

What is a Living Wage in Maui County?



Source: Hawaii Self Sufficiency Standard,
Hawaii State Commission Status of Women

INNOVATION AND TECHNOLOGY IN HAWAII:
An Economic and Workforce Profile





- Science and tech sector contributed over \$155 million to Maui County economy
- Between 2002 and 2007, tech sector employment grew 3.7% outpacing the 2.5% growth of the overall economy
- **1,886** employed by high tech on Maui
[Over 20% of tech workforce with Hawaii high school diplomas, up from 1% in 1999—MEDB]
- \$69,000 average annual earnings per tech worker — 50% more than the average for other workers.



Market Segment	Growth rate (2002-2007 emp.)	Average Earnings (2007)
Agricultural Biotech	6.4%	\$53,866
Astronomy	3.6%	\$70,951
Biotech/Life Sciences	2.3%	\$54,532
Defense/Aerospace	4.1%	\$76,697
Energy	8.4%	\$58,498
Environmental	4.0%	\$66,971
Film/Digital Media	0.2%	\$73,335
ICT	2.5%	\$75,056
Ocean Sciences	5.2%	\$53,959
Engineering	3.8%	\$80,799
Overall Tech	3.3%	\$63,623
Overall HI Economy	2.5%	\$45,963

Home Grown Workforce Key to Growth

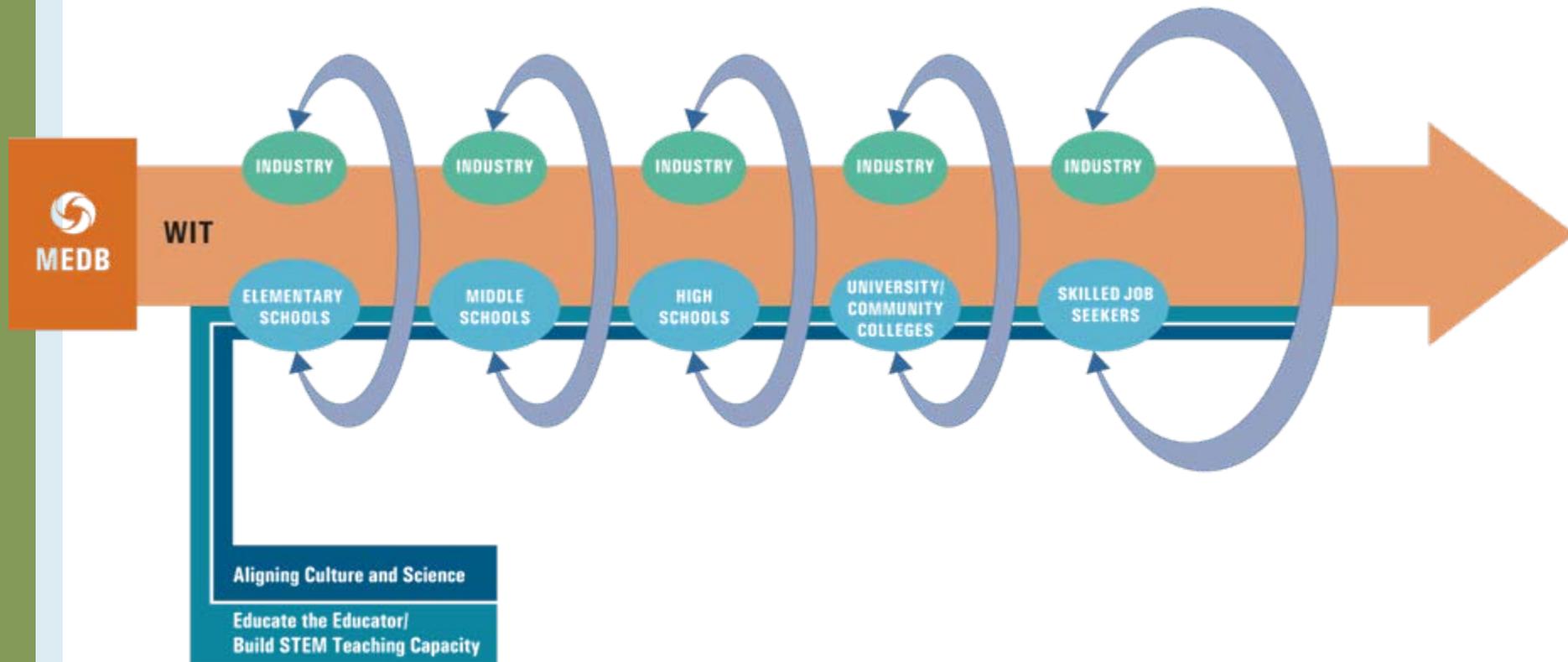


Women in Technology

- **Launched in 2000.**
- **Mission: To encourage girls/women, Native Hawaiians and other underrepresented groups to pursue STEM education and careers.**
- **To build a resident trained technical workforce, that reflects the diversity of Hawaii.**

BUILDING THE STEM PIPELINE

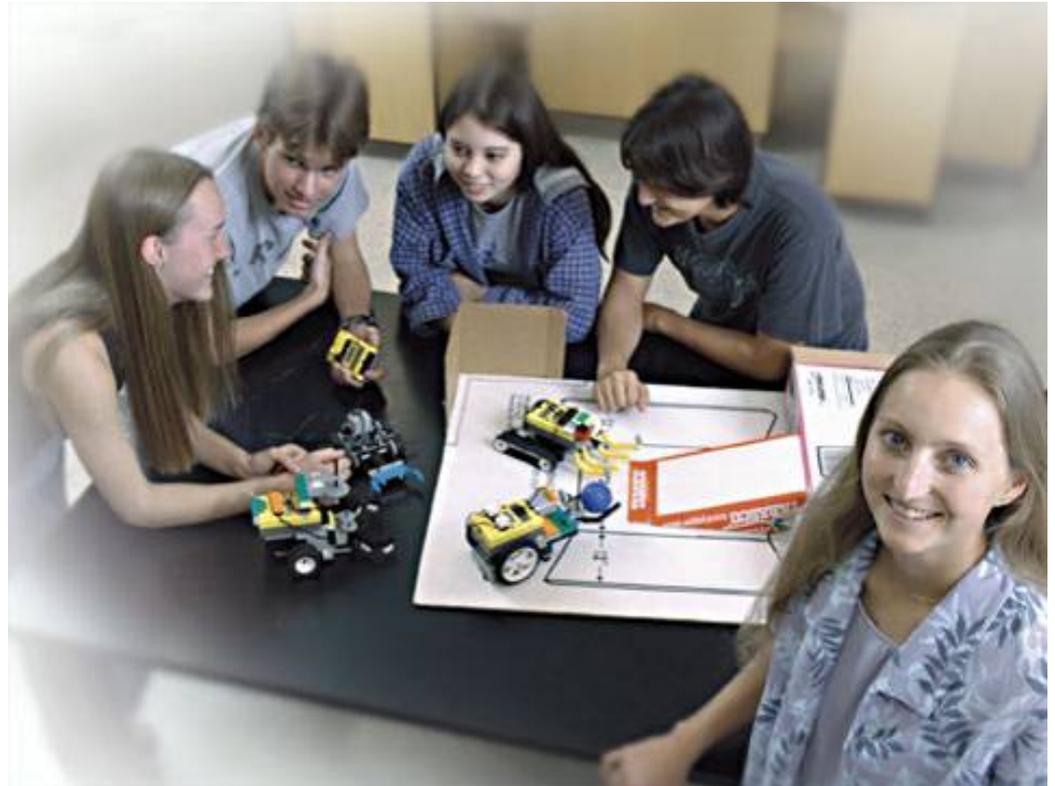
A Model for Inclusion



STEM Workforce Pipeline

...WIT led initiatives across the state

- Project-based learning
- Mentoring
- Internships
- Afterschool programming
- STEM Camps
- Job Shadowing
- 4H Connect
- Workshops
- Technical assistance
- Professional Development Educators
- Robotics
- Job fairs/placement
- Repatriating residents



STEM model expands

Fifteen (15) schools; more than 4,400 students

Maui County

Baldwin High School
Kihei Charter High School
King Kekaulike High School
Lahainaluna High School
Maui High School
Molokai Middle School
Molokai High School



Hawaii Island

Keaau High School

Kauai

Chiefess Intermediate School
Kauai High School

Oahu

McKinley High School
Mililani High School
Farrington High School
Roosevelt High School



Skills Students Master:

- Global Positioning Systems (GPS)
- Geographical Information Systems (GIS)
- Computer Generated Animation
- Database Design
- Webpage Design
- Programming
- Office Automation
- AutoCAD
- Computer Aided Design
- Visualization

STEM Project Competencies

- Service Learning
- Project Based
- Self Directed Learning
- Problem Solving Strategies
- Collaboration and Teamwork
- Research and Evaluation
- Communication
- Technology Fluency
- Student Confidence



STEM Project/Service Learning

- Over 4,400 students served
- Student Tracking
 - Evaluations administered annually
 - Career Intent
 - **over 76%** showed increased interest in STEM due to project/service learning program.
 - **71%** plan to pursue a STEM related degree
- Self esteem increases significantly



**HAWAII
STEM²⁰¹⁰
CONFERENCE**

**April 9-10
Makena Beach Resort**

Middle and High School Student Labs from around the State will participate in a 2-Day **Hawai`i STEM/Service-Learning Conference**.

- Students Project Exhibits
- Breakout Training Sessions in Gaming, 3D Animation/Modeling, MAYA , Videography, GIS & GPS
- Software Competitions—CAD, GIS, Logo and Web Design, Program Impact Assessment

**Student Exhibit Hall will be
OPEN TO THE PUBLIC:
Saturday, April 10,
8:30 am - 1 pm**

Come see the exciting service learning projects our Hawai`i students have been working on!

Aligning Culture and Science

E Ui No Ka 'Ae

E Mahalo Aku

E Komo Me Ka Hōano

I ka hele aku, E ho`oma`amau i ka wahi



EXCITE CAMP - Excite. Educate. Expose.



Excite, educate, and expose students to science, technology, engineering and math (STEM) career pathways.

Summer Software Camps

- 3D AutoCAD
- Photoshop
- Dreamweaver
- Gaming Software

*If you are interested,
please email us at:
womenintech1305@gmail.com*

**Photoshop/
Dreamweaver**
June 29-
July 3

3D AutoCAD
July 7-10

**Summer Software
Camps**

Presented by:
MEDB's WIT Project

**Gaming
Software**
July 13-17

women in
technology
A PROJECT OF THE PAAL NETWORK, REVOLUTIONIZING WOMEN

PASAPORTE



Geotech for Hawaii Schools

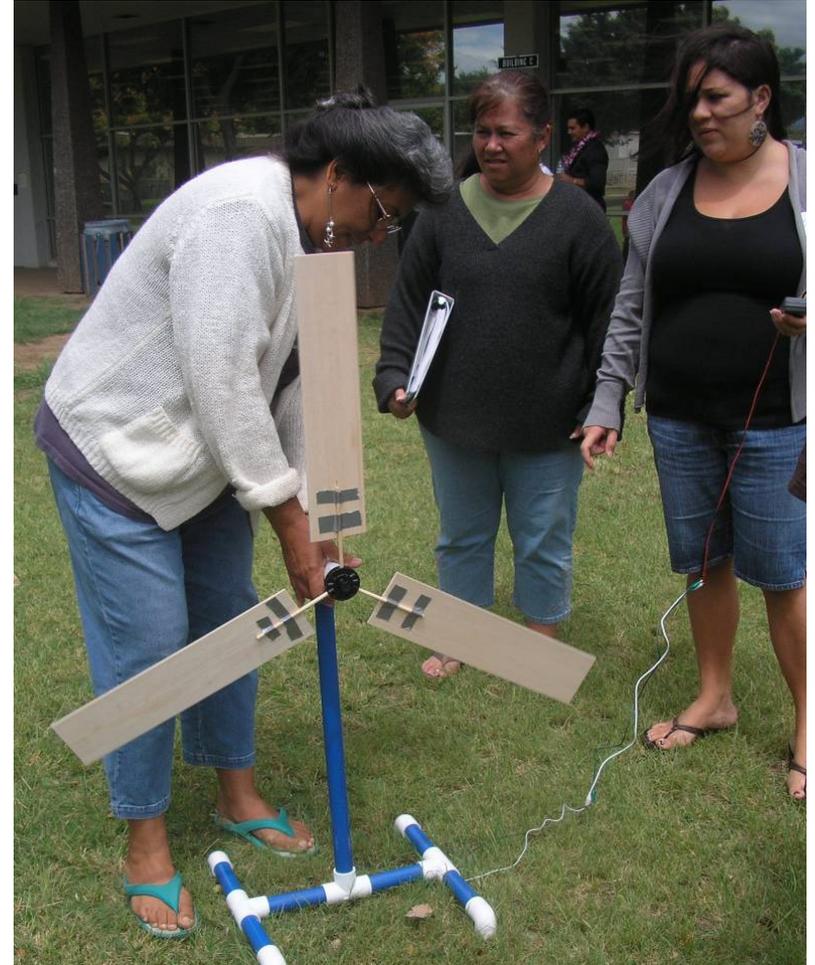
A statewide initiative to integrate the use of GIS, GPS, and Remote Sensing into K12 Education



Educating the Educator



New Island Energy Curriculum and Inquiry Workshops



Providing Real World Experiences for 23 Interns



- STEM Project Internships
- Ke Alahele Education Fund Internships
- Agriculture/High Tech Internships
- WIT Internships Oahu Program

Akamai Internship Program continues with (15) additional internships





WIT sponsors MentorNet, a national award-winning on-line mentoring program, for UH students.



UH MentorNet alums with MentorNet founder and CEO, Carol Muller (second from left), at ASEE Conference.



SWE - Leadership Development



*UH Student Chapter – 125 current members

*Newly Chartered Professional Chapter launched Feb. 2010 with 70 alums



Annual Reach

- 440 teachers trained (statewide)
- 100 teachers trained (Maui County)
- 10,375 students touched (statewide)
- 2,500 students touched (Maui County)
- Teachers are offered PD credits and stipends
- Ongoing teacher support

work
and

play
in hawaii

Kama'aina Come Home™

Your guide to high-tech careers in Maui



Stepping forward...



Contact us...

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