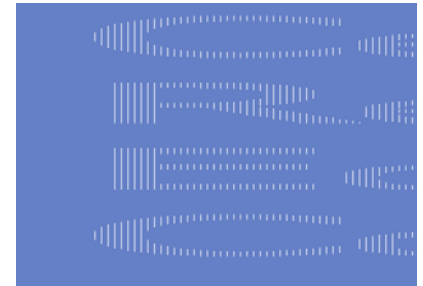




THE COUNCIL FOR COMMUNITY
AND ECONOMIC RESEARCH



Innovation and Technology In Hawaii: An Economic & Workforce Profile

October, 2008

House/Senate Joint EBM-EDT Informational Briefing
January 28, 2009





Ag Biotech



Astronomy



Life Sciences



**Communications &
Info Tech**



Defense/Aerospace

10 Converging Sectors

Engineering



Environment



Film/Digital Media



Ocean Science



Energy



Economic Data

for Policy Makers and Stakeholders

- \$200,000 Legislative Grant-in-Aid 2006
 - Partnership with DBEDT
 - Contract with the Center for Regional Economic Competitiveness
-

A Phone Book of Hawaii's Science & Tech Goods and Services

www.hiscitech.org/directory



- Home
- About Us
- Get Involved!
- Event Center
- Member Center
- Careers & Internships
- Public Policy & Advocacy
- Information Center
- Group Purchasing
- Become a Member
- E-Newsletter



Hawaii Student Television
HISciTech's featured new member!



Bot Ball

Referentia is taking initiative in

Hawaii Science & Technology Council

Welcome to the Hawaii Science & Technology Council's new dynamic portal of services. Along with our new logo comes a new name, HISciTech. Accordingly, we have expanded our existing services to include job, internship and resume posting and online registration for events.

The purpose of our new branding is to more clearly define to our members, our stakeholders and the community who we are. The Hawaii Science & Technology Council will be referred to as HISciTech, while maintaining Hawaii Science & Technology Council as our official title.

This is an exciting time to be a part of Hawaii's vibrant science & technology community. We encourage you to enquire about our numerous services & member benefits. As you use the new site, please [contact](#) us with feedback.

New: **Industry Directory** Hawaii's innovation and technology companys' online "Catalogue of Products & Services"

Create or **Update** your company's profile.

SPONSORS



HOW TO JOIN

[Click here to join HISciTech!](#)

MEMBERS LOGIN

Welcome, CE Administrator

- [Logout](#)
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INDUSTRY DIRECTORY

INDUSTRY DIRECTORY

THE INSTITUTE



HISciTech INDUSTRY DIRECTORY

[Overview](#)[Statistics](#)[Companies](#)[Career Center](#)[Education](#)[Resources](#)

Company Search

Hawaii's Science & Technology Company Directory

Organization:

City:

Sectors:

- Agricultural Biotechnology
- Astronomy
- Biotechnology/Life Sciences
- Defense/Aerospace
- Energy
- Environmental
- Film/Digital Media
- Information/Communication Technology
- Ocean Sciences
- Other(s)

Search

Search Results

758 matches found. Displaying results 1 to 10. < Prev [Next](#) > [[Show All](#)]



HI SciTech INDUSTRY DIRECTORY

Overview

Statistics

Companies























Career Center

Education

Resources

Search Results

65 matches found. Displaying results 1 to 10. < Prev Next > [Show All]

	 Agricultural Biotechnology	 Astronomy	 Biotechnology/ Life Sciences	 Defense/ Aerospace	 Energy	 Environmental	 Film/ Digital Media	 Information/ Communication Technology	 Ocean Sciences	 Other
21st Century Technologies Honolulu, HI										
AES Hawaii Inc. Kapolei, HI										
AeroVironment Inc. Honolulu, HI										
Aline Trenchless Engineering Waipahu, HI										
Aloha Petroleum, Ltd. Honolulu, HI										
Ambient Micro, LLC. Kihei,, HI										
Aquacultural Concepts										



Ag Biotech



Astronomy



Life Sciences



Communications &
Info Tech



Defense/Aerospace

•**31,106 Jobs**

•24,000 Private

•7,000 Public

•**1,964 Companies (1700 Private)**

•**10 Market Sectors**

•**\$69,000 Average Salary**

Engineering



Environment



Film/Digital Media



Ocean Science



Energy



Industry/DBEDT Consensus on Tech Definition/Methodology

The definition of technology was derived from the Bureau of Labor statistics (BLS), based on the level of a company's technology intensive workforce, with conservative modifications to improve its relevance for Hawaii.

Innovation & Technology Market Segments

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

Size and Scope

- Tech contributed \$3 billion dollars, or 5% of the state's \$61 billion economy.
 - 31,106 jobs, or 3.6% of the state's employment of approximately 800,000 workers.
 - Between 2002 and 2007 tech growth of 3.3% outpaced the 2.5% growth of the overall economy.
 - 1,964 companies, approximately 5% of all establishments.
 - \$69,000 average annual earnings per tech worker — 50% more than the average worker.
 - Technology workers in Hawaii earn about 77% of the mainland average for technology employees.
-

Sound Bite #1

Tech workers in Hawaii earned about \$1,500 more per month than the average non-tech worker.

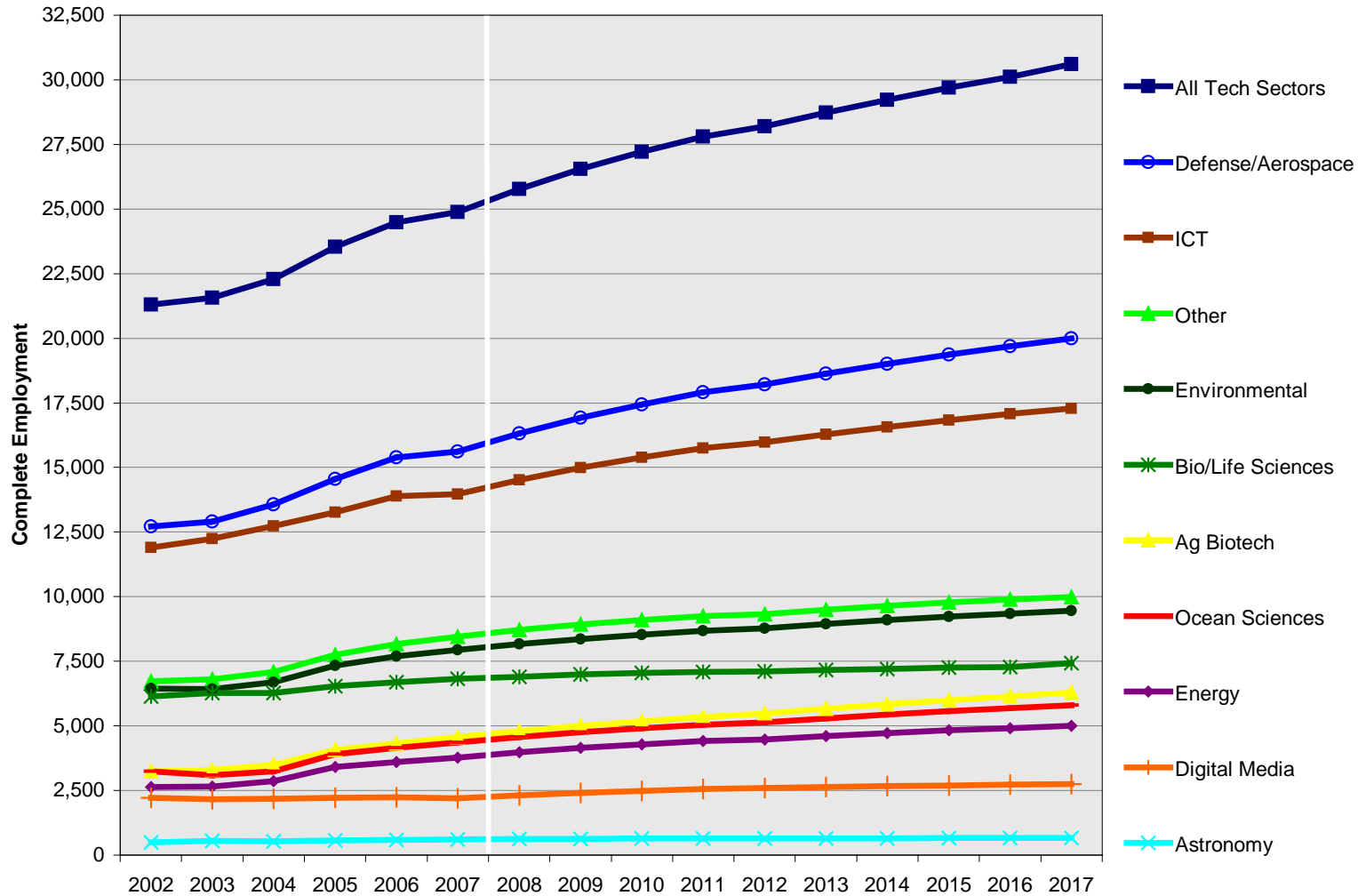
Sound Bite #2:

The technology sector's impact on the Gross State Product of \$3 billion is about the same as the accommodations industry.

	Employment	Impact on GSP
Accommodations	40,000	\$3 billion
Science/Tech	31,106	\$3 billion

Hawaii's Tech & Innovation Market

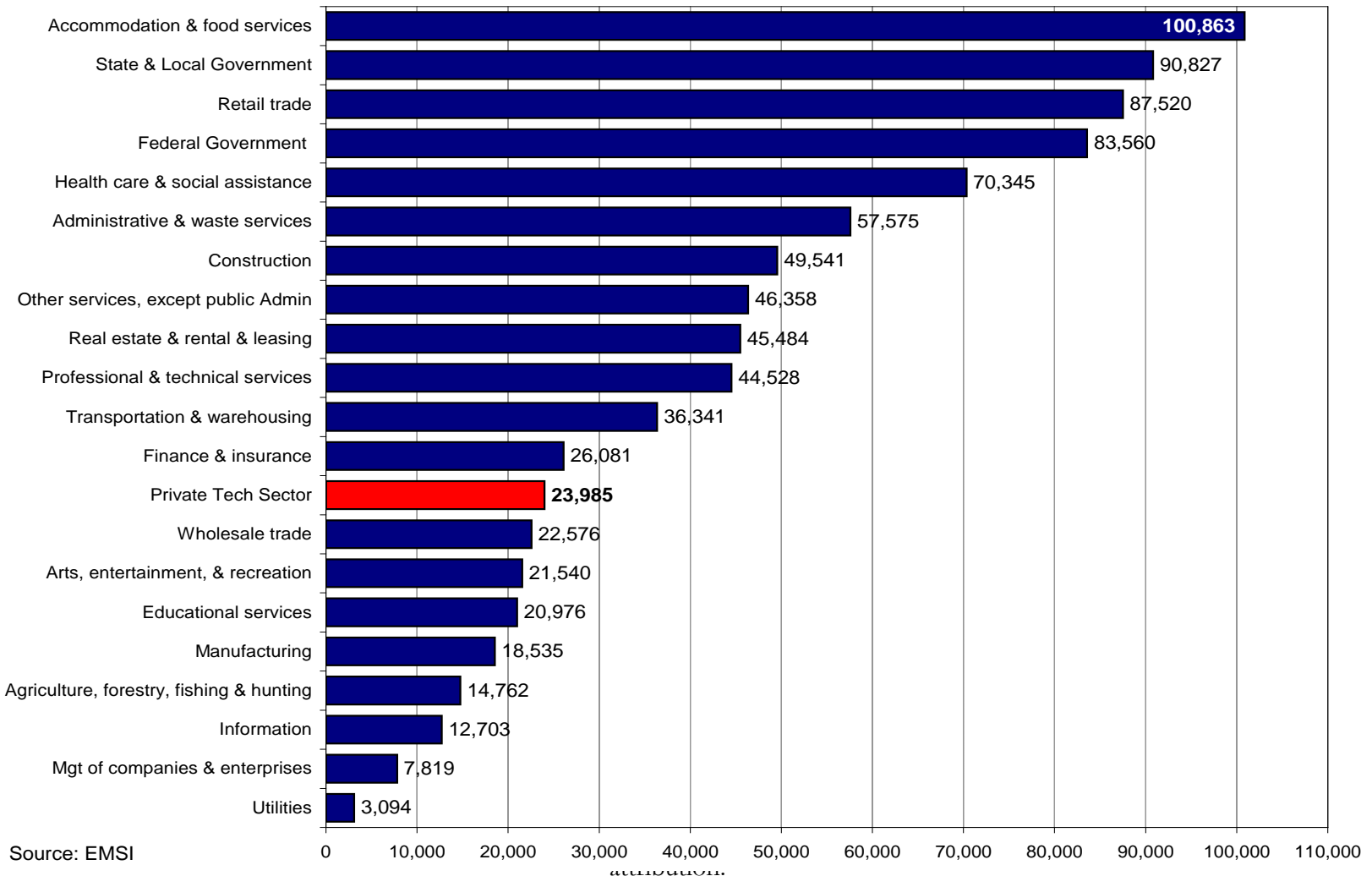
Area Growth Trends



Market Segments Driving Hawaii's Innovation and Tech

- Defense and ICT together comprise more than 50% of tech employment.
- 4,784 science and technology jobs are located on the Neighbor Islands, or 17% of total science and technology employment
- 4,158 net new jobs were created between 2002 and 2007 within Hawaii's public and private technology sectors.
- Private sector tech accounts for 4.5 percent of US employment but lags behind at only 2.8% in Hawaii.
- However, Hawaii's tech sector is ***catching up*** to the mainland, with 3.3% annual growth compared with 1.8% on the mainland (between 2002 and 2007).

Technology & Innovation as a Share of Hawaii's Economy



Source: EMSI

Sound Bite #3:

During the next decade, the tech sector is expected to grow at a rate *46% faster* than the rest of the economy and *private sector tech companies are expected to grow at a rate 61% faster.*

Trends Suggest 20 years of Economic Diversification Policies Are Working

- Early visionaries Gov. Ariyoshi, Gov. Cayetano, Senator Inouye
 - Increased Investment in University of Hawaii: NSF, NIH, EPSCoR
 - Impact of Senator Inouye and Congressional Delegation
 - Act 221/215 – Hawaii State Legislature
-



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**Communications &
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Defense/Aerospace

***There will be no safety net
without a diversified tax base.***

Engineering



Environment



Film/Digital Media



Ocean Science



Energy



Mahalo.



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