



House District _____

Senate District _____

**THE TWENTY- FOURTH LEGISLATURE
HAWAI'I STATE LEGISLATURE
APPLICATION FOR GRANTS & SUBSIDIES
CHAPTER 42F, HAWAI'I REVISED STATUTES**

Log No: 86-0

For Legislature's Use Only

Type of Grant or Subsidy Request:

- GRANT REQUEST -- OPERATING
- GRANT REQUEST -- CAPITAL
- SUBSIDY REQUEST

"Grant" means an award of state funds by the legislature, by an appropriation to a specified recipient, to support the activities of the recipient and permit the community to benefit from those activities.

"Subsidy" means an award of state funds by the legislature, by an appropriation to a recipient specified in the appropriation, to reduce the costs incurred by the organization or individual in providing a service available to some or all members of the public.

"Recipient" means any organization or person receiving a grant or subsidy.

STATE DEPARTMENT OR AGENCY RELATED TO THIS REQUEST (LEAVE BLANK IF UNKNOWN):

UNIVERSITY OF HAWAII, OFFICE OF THE VICE PRESIDENT FOR RESEARCH, DR. JIM GAINES, SYSTEM WIDE

STATE PROGRAM I.D. NO. (LEAVE BLANK IF UNKNOWN): UH900 - UH SYSTEM WIDE

1. APPLICANT INFORMATION:

Legal Name of Requesting Organization or Individual:
Hawaii Life Sciences Council

Dbas: **Hawaii Science & Technology Institute**

Street Address: 735 Bishop St. Suite 401
Honolulu, Hawaii 96813

Mailing Address: same

2. CONTACT PERSON FOR MATTERS INVOLVING THIS APPLICATION:

Name LISA H. GIBSON

Title President

Phone # 808-536-4670 or 753-5475 cell

Fax # 808-536-4680

e-mail : lgibson@hiscitech.org

3. TYPE OF BUSINESS ENTITY:

- NON PROFIT CORPORATION
- FOR PROFIT CORPORATION
- LIMITED LIABILITY COMPANY
- SOLE PROPRIETORSHIP/INDIVIDUAL

7. DESCRIPTIVE TITLE OF APPLICANT'S REQUEST:

INTEGRATING HAWAII'S SCIENCE & TECH ECONOMIC COMMUNITY: MOBILIZING FOR ACTION

(Maximum 300 Characters)

4. FEDERAL TAX ID #: [REDACTED]

5. STATE TAX ID #: [REDACTED]

6. SSN (IF AN INDIVIDUAL): NA

8. FISCAL YEARS AND AMOUNT OF STATE FUNDS REQUESTED:

FY 2008-2009 \$ 480,000

9. STATUS OF SERVICE DESCRIBED IN THIS REQUEST:

- NEW SERVICE (PRESENTLY DOES NOT EXIST)
- EXISTING SERVICE (PRESENTLY IN OPERATION)

SPECIFY THE AMOUNT BY SOURCES OF FUNDS AVAILABLE AT THE TIME OF THIS REQUEST***:

STATE \$0
 FEDERAL \$0
 COUNTY \$0
 PRIVATE/OTHER \$0

***FUNDRAISING IS UNDERWAY TO RAISE NON-STATE FUNDS INDUSTRY AND FOUNDATION FUNDS FOR THESE PROJECTS.

TYPE NAME & TITLE OF AUTHORIZED REPRESENTATIVE:

[REDACTED SIGNATURE]

NAME & TITLE

LISA H. GIBSON, PRESIDENT

1/31/08

AUTHORIZED SIGNATURE

DATE SIGNED



Application for Grants and Subsidies

Proposal Submitted by
The Hawaii Science & Technology Institute
January 31, 2008

Seeking Support for its project:

*Integrating Hawaii's Science & Technology Economic Community:
Mobilizing for Action to Achieve a Shared Vision for the Future*

Contact:

Lisa Gibson
President
Hawaii Science & Technology Institute
808-536-4670
lgibson@hiscitech.org

Background and Summary

I. A BRIEF description of the applicant's background;

The *Hawaii Science & Technology Institute (HSTI)* is a 501(c)3 tax-exempt charitable organization with an 15-member board of directors. The Institute's science and technology education, workforce development and community outreach programs seek to improve the quality of life for Kaka'ako and Hawaii's other low-income communities through the creation of living wage jobs, improved health outcomes, decreased healthcare costs and environmental preservation. HSTI is the applicant for this project.

The Hawaii Science & Technology Institute works closely with *The Hawaii Science & Technology Council*, a 501(c)6 industry association with a 28-member board. The council serves Hawaii companies engaged in ocean sciences, agricultural biotechnology, astronomy, defense aerospace, biotech/life sciences, information & communication technology, energy, environmental technologies, and creative media. Board lists are attached.

The creation of the Hawaii Science & Technology Institute and the Council address a key missing component of Hawaii's new economy civic infrastructure. An industry driven vehicle now exists to align efforts of Hawaii's nine sectors emerging new economy industries with government, the University, the community, economic, workforce development and education stakeholders to make Hawaii a successful competitor on the world stage of scientific and technological innovation.

2. The Goals and Objectives related to the request

This proposal seeks funding for the Hawaii Science & Technology Institute's project,

Integrating Hawaii's Science & Technology Economic Community: Mobilizing for Action to Achieve a Shared Vision for the Future.

The project has two main goals:

- I. Create an Integrated Science & Technology Economic Community Sector Action Plan**
- II. Phase I Implementation: Three Tactics for Integrated Sector Workforce Development**
 - Pilot HiSciTech Summer Bootcamp – An Industry Driven Student Internship and Teacher Externship Summer Program
 - A Project to Map Career Pathways Across Sectors
 - Creation of an Endowed Scholarship Fund to serve Hawaii STEM students

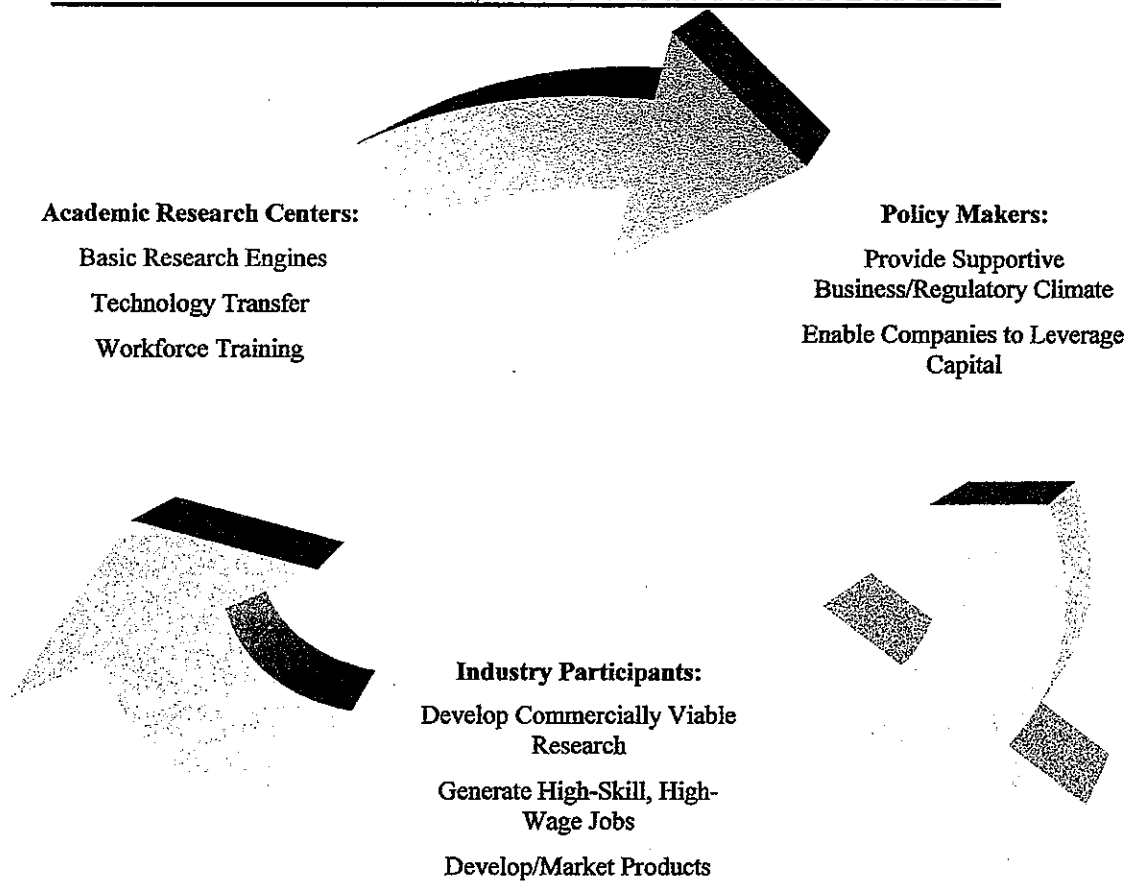
GOAL #1: Create an Integrated Science & Technology Economic Community Sector Action Plan

PUBLIC PURPOSE , TARGET POPULATION. GEOGRAPHIC COVERAGE

A. Roles of Collaborative Partners

A variety of public and private stakeholder groups is essential to provide the significant financing, personnel requirements and supportive business climate needed to successfully compete in today's marketplace. Innovation industries have three primary partners in this endeavor each providing support in unique ways. They include policymakers, universities and research centers, as well as the industry itself.

Science & Tech Industry Partners and Roles Partners



Coordination of the technology related goals for Hawaii's *legacy sectors* (agriculture, tourism, military, construction, healthcare) and its nine *existing and emerging innovation sectors* (Agricultural Biotech, Ocean Sciences, Life Sciences, Information & Communication Technologies, Astronomy, Defense/Aerospace, Environment, Energy,

Creative Media) into an integrated science and tech statewide action plan is lacking. This is particularly true for Oahu which has not achieved the success of the neighbor islands in creating an economic community across its legacy and tech sectors. Such an effort will build upon the Hawaii 2050 Sustainability Plan which identifies the sectors for diversification but does not provide the economic action plan to achieve a sustainable economy.

Until recently there has been no private sector industry group to coordinate science and tech industry participation – basically one of the three legs in the illustration above. With the emergence of the Hawaii Science & Technology Institute and its sister organization the Hawaii Science & Technology Council, a private-sector vehicle now exists to coordinate industry input into an cross-sector action plan.

Leverage and Build Upon Existing Studies: Significant effort has already resulted in several strategic planning efforts and reports. The need is not to write another plan, rather to synthesize across sectors the wealth of information which has already been assembled. Significant work which has already been completed includes but is not limited to:

- Existing Sector Specific Road Maps (ie. Hawaii Life Sciences and Innovation Road Map, DoD Working Group Study, Hawaii Farm Bureau Plan, CEDS).
- HiSciTech Industry Directory
- HiSciTech Targeted Sector Portfolio Trend Analysis (2006 GIA underway)
- Hawaii 2050 Sustainability Plan
- SB1931 Educational Workforce Working Group Report to Legislature
- STEM Leadership Initiative
- National Governor's Association Innovation Report
- National Science Foundation Cyber Infrastructure Report

Major Collaborative Partners

This effort will build upon the current Sector Portfolio Trend Analysis. Essentially, the current Grant in Aid project underway represents Phase I Analysis. Phase II will use the analysis as the foundation to build consensus across sectors. Moreover, as with Phase I, because the effort includes several sub-industry groups, economic development professionals both on Oahu and the Neighbor Islands and other stakeholders, it by definition must be a collaborative effort. A *Science and Tech Economic Community Steering Committee*, with representation from the following partners will guide the effort:

- The University of Hawaii – A strong partnership between industry, NGO's, academia, and state and local government is essential for the development of successful science and tech clusters. States with large innovation industry clusters actively encourage and facilitate technology transfer from academic research institutions as well as help to promote investment in science and tech companies. The creation of a science and tech plan is particularly critical for

the UH's competition for a third Research Infrastructure Improvement grant (RII3) with the National Science Foundation's (NSF) Experimental Program to Stimulate Competitive Research (EPSCoR); a 5-year, \$15M program that will have Cyberinfrastructure (CI) as a central theme. Specifically, a successful proposal must demonstrate significant state commitment to CI as a key infrastructure component in an overall science & tech plan.

- Partner industry groups including but not limited to: Hawaii Aquaculture Association, the Hawaii Crop Improvement Association, the Hawaii Farm Bureau, the Marine Technical Society, AFCEA, Green Tech group, Hawaii Energy Alliance, the DoD Working Group/others.
- Representatives from legacy sectors.
- The Workforce Development Board (DLIR)
- Enterprise Honolulu
- Neighbor Island Economic Development Boards
- DBEDT
- High Technology Development Corporation (HTDC)

B. Project Goals - the action plan will seek to:

- Identify cross-sector synergies and interrelated needs
- Aggregate needs to support innovation building blocks
- Create consensus around needs and establish cross-sector networks
- Highlight sector specific needs which support shared vision technology on legacy sector evolution
- Provide a tactical plan and benchmarks for sector sustainability.
- Clarify partner roles and responsibilities

C. Major Building Blocks of Innovation Industry Development.

There are five components essential for science and tech industry development that state policy makers should be aware of and support. The action plan will seek to provide policy makers with actions – aggregated across Hawaii's nine science and tech sectors - which strengthen the major building blocks of an innovation-based economy

1. **Strong Research Institutions and Technology Transfer: Strong Research Institutions and Technology Transfer:** The successful transfer of the results of government funded research for commercialization is crucial to the long-term viability of industry. The University of Hawaii must be a bastion of research and intellectual activity that will attract Hawaii's best and brightest young people to the careers identified in the nine emerging sectors of the new economy. Attracting Hawaii's citizens to the pursuit of career pathways in the Science, Technology, Engineering and Mathematics (STEM) disciplines will result in a better educated, more critically thinking citizenry in our state. Technology transfer has been recognized by universities, government, and the public as generally beneficial, but there are other equally important objectives to consider. Universities create and share

information through publication, outreach, and public disclosure. Government agencies appropriate funds for basic and applied research and broker fiscal and intellectual assets for the public good. Successful technology transfer identifies ways to create appropriate conversion of public resources to private enterprise while improving the economic prosperity for a state or region.

2. **Specialized Facilities and Infrastructure:** All industry – including legacy sectors and science and tech sectors – have infrastructure requirements. If the goal is economic diversification, policy makers need a clear understanding of infrastructure requirements in order to prioritize investments. Selected sector examples include:
 - **Cyberinfrastructure (CI):** This requirement cuts across all industry sectors and educational institutions. CI includes three broad components; Processing power: The availability of computers, especially high-performance computing platforms, Connectivity: the ability to collect, store, analyze and transmit data across global networks, and Human Resources: Information science researchers, modelers, and technicians who can interact between scientists and high performance computers to help answer questions affecting Hawaii.
 - **Bioscience Companies.** The specialization required in these research facilities make them some of the most expensive business real estate to develop. Many states are now investing in the development of specialized facilities to serve as incubators for small, emerging bioscience companies.
 - **Agriculture:** Of particular importance in Hawaii is the preservation of prime ag lands not only to ensure the beauty of our islands for the tourism industry but to ensure that land is available for food and energy crops for a sustainable future.
3. **Capital Formation:** The need for a collaborative and strategic approach to create a pipeline of capital to grow Hawaii's innovation economy from for science and tech companies is essential. The need for capital cuts through all sectors. It is unlikely that continued feedback across all sectors will diminish the need for capital.
4. **Educated Workforce:** As with capital formation, the need for a well-educated, critically thinking labor force cuts across all of Hawaii's sectors both legacy and innovation based. For the science and tech sectors the lack of an industry entity to aggregate and coordinate industry workforce needs has been a missing piece of Hawaii's civic infrastructure. The HiSciTech Council and Institute, along with other key partners, have articulated a Phase I list of tactics as the second part of this proposal as a catalyst to engage cross-sector industry participation.
5. **Supportive Public Policy for Science & Tech Development:** The need for a stable and supportive public policy framework is vital to the development of an innovation economy and a successful research endeavor alike. It is almost impossible for any state or region to ignore the need for selective incentives to either hold existing high-

tech companies or attract new enterprises. In addition, state efforts to restrict certain types or research within science & technology can impact their ability to promote other areas of industry development. A major role of the HiSciTech Council, the industry association, is to advocate for policies at the Federal, State and county levels that support those emerging industries which in turn will create the living wage jobs.

II. SERVICE SUMMARY and OUTCOMES

1. Scope of Work, tasks, responsibilities

- **Hire appropriate consultants.** The project will require professional facilitation and project management which will be managed by the Institute. The contract researcher and workforce consultants, if needed, will have a deep understanding of research methodology and industry sector development.
- **Framework for Industry Participation.** Staff hired to coordinate industry to strengthen the organizational framework for effective science & technology industry participation in the delivery system.
- **Stakeholder Coordination.** A leadership coalition of sub-sector leadership along with other key partners which will:
 - a. Establish and engage sector task forces which meet on a regular basis.
 - b. Provide staff to support sector task forces to ensure that information is shared on a regular basis with other stakeholders.
 - c. Build a sector-specific action plan using the Building Blocks as the outline.
 1. Articulate **cross-cutting** building blocks such as the need to ensure a competitive cyber-infrastructure.
 2. Highlight **unique sector** requirement when critical for a sustainable economy ie. preservation of ag lands.
- **Industry Data:** The completion of the Targeted Economic Development Analysis is anticipated by June, 2008. The cluster data and workforce demand analysis will provide sector leaders, education and workforce and economic development partners with a powerful foundation upon which to base the Science and Tech Action plan.

2. Annual Timeline. Once the grant is received, we anticipate a year to convene stakeholders and execute plan.

3. Quality Assurance and Evaluation. Demonstrated consensus around action items and agreement on performance metrics.

4. Effectiveness Measures Accomplishment of one or more of the tactical activities.

KEY OUTCOME: A Science and Technology Action Plan, including policy recommendations, for the State of Hawaii. The planning document will include stakeholder roles, responsibilities, performance benchmarks and funding requirements identified.

GOAL #2: Phase I Implementation: Three Tactics for Cross-Sector Integrated Workforce Development

PUBLIC PURPOSE , TARGET POPULATION. GEOGRAPHIC COVERAGE

Hawaii needs to increase the number of individuals prepared for employment in Hawai'i's growing innovation economy by developing and offering industry relevant standards-based curricula that will be used in the education pipeline to ensure a highly trained workforce. According to the National Center for Educational Statistics (NCES), Hawaii's average graduation rate for high school freshmen (2002-2003) is about 69%, compared to a national average of 74%. NCES and Census data for 2000 show that only 38% of high school freshmen in the state will enroll in post-secondary education within four years, compared with 52% among the top states in this category. The community college first-year drop out rate in the state is nearly 20 percentage points higher than top states. Only 46% of Hawaii college students will complete a bachelor's degree within six years compared with 64% in top states.

Hawaii needs to develop a stronger and broader high school to postsecondary education pipeline by designing and teaching a standards-based postsecondary level applied science, technology and mathematics programs. Significant investment in the development of science and technology sectors in order to create living wage jobs in Hawaii have added a substantial numbers of new jobs to the economy, and have a significant impact on the future economy of the state. An analysis of employment in these sectors indicates that in 2004, approximately 64,000 individuals were employed in the state. This number is expected to grow to about 76,000 in 2012. It is estimated that about 9,500 individuals currently employed in these sectors will leave their jobs over this same period. Therefore, approximately 21,500 jobs will need to be filled (about 2,700 per year) by 2012.

The recently completed "Findings and Recommendations of the Educational Workforce Working Group SB1931" concludes that in order for Hawaii to move beyond the rhetoric of "fixing" our public schools there is a critical and urgent need for parents, business, community groups and government agencies to join in helping Hawaii's public school system. **The re-occurring theme in the SB1931 Findings underscores the need to connect industry to students and educators.**

Until the formation of the Hawaii Science & Technology Institute/ Council, the absence of a connection to industry has resulted in:

- The lack of coordination across Hawaii's nine innovation sectors into an integrated action plan for a demand-driven workforce.
- The lack of a coordinated workforce recruitment strategy
- The lack of mentorship and internship programs and the absence of programs to coordinate industry participation – especially on Oahu where 80% of the workforce resides;
- The lack of industry input into the identification of education and training needs;
- Lack of identification of sector-based career pathways, job titles/skill set requirements.

HiSciTech's leadership recognizes the important role it can play in representing the needs of industry a demand-driven workforce development system. HiSciTech has already completed its job/internship and resume posting functionality as well as an Industry Directory for Hawaii's innovation companies.

2008 Institute workforce objectives include a focus in three areas:

- A Pilot HiSciTech Summer Bootcamp for Teachers and Students
- Coordination of a web-based content for cross-sector career pathway information and linkages to education
- Creation of an endowed scholarship fund to serve Hawaii STEM students

Tactic #I. Pilot HiSciTech Summer Bootcamp for Teachers and Students

Service Summary and Outcomes

1. Scope of Work, tasks, responsibilities

In an effort to prepare a world-class scientific workforce for Hawaii, HiSciTech, in partnership with the State of Hawaii Workforce Development Board, the University of Hawaii and the UH Community Colleges seeks to initiate a pilot program, the HiSciTech Summer Bootcamp for Teachers and Students. The program builds upon the successes of the San Diego Life Sciences Summer Institute (LSSI) developed by the San Diego Workforce Development Board designed to expose students and teachers to the life science industry. The program is a national best practice which can be applied and adapted across the range of Hawaii science and tech sectors. Created in 2005, the San Diego program connects upper-level high school, university and community college students, as well as high school and community college teachers, with leading companies within San Diego's life sciences community and has a significant record of achievement:

Student Internship Program	Summer 2005	Summer 2006	Summer 2007
Number of Applicants (HS/College)	38	127	198
Number of Boot Camp Attendees	23	34	50
Number of Student Internships	13	44	61
Number of Companies Hosting Interns	8	14	15

Teacher Externship Program	Summer 2005	Summer 2006	Summer 2007
Number of Applicants	12	20	25
Number of Teachers Enrolled	10	20	24
Number of Companies Hosting Externships	14	16	10
Approximate Number of Students Reached	1,701	3,402	4,536

Partner Task Force

The first action will be to assemble the task force to review the program for its appropriateness for Hawaii. Members of the San Diego Workforce Partnership have agreed to come to Hawaii to work with the task force and to share the information from their program. Key components of the program include:

Student Internships

The high school and college student internship program will help increase awareness of the Hawaii's science and tech industries and related fields of research. Students will gain exposure to career options, hands-on work experience and readiness skills, and mentoring by a company or research scientists. Adapting the San Diego model to Hawaii's situation and cultural considerations, the program will begin with a summer week-long introduction to science and technology basics. Following the boot camp training students would begin a paid internship within a company in one of Hawaii's nine sectors. Companies which participate in the program will gain exposure to prospective future hires, and benefit by providing mentor and managerial experiences for current employees. If companies have already identified interns, they can also be pre-trained through the Science & Tech "Boot Camp."

Teacher Externships

The Teacher Externship Program will be developed to help increase awareness of Hawaii's range of science and tech industries to those individuals who are most influential in the development of our future workforce. Teachers will gain exposure to the industry through hands-on curriculum training, company externship experiences, and curriculum integration, along with sharing and networking among peers. Again, using the San Diego model, the two-week paid program will include one week of industry introduction and curriculum, followed by one week of half-day industry externship experiences and half-day curriculum connection and implementation workshops.

2. Annual Timeline.

Contingent upon funding, the goal is to launch the program with 10 college interns and 10 teachers in the summer of 2009. The plan is to assemble key partners by June, 2008 to initiate planning and outreach for the summer 2009 launch.

3. Quality Assurance and Evaluation

Again, HSTI will use the best practices of San Diego as a benchmark for quality and evaluation of the program.

4. Effectiveness Measures

- **# of student interns placed.** In San Diego, the student internship program has placed a total of 118 students into hands-on industry internship experiences

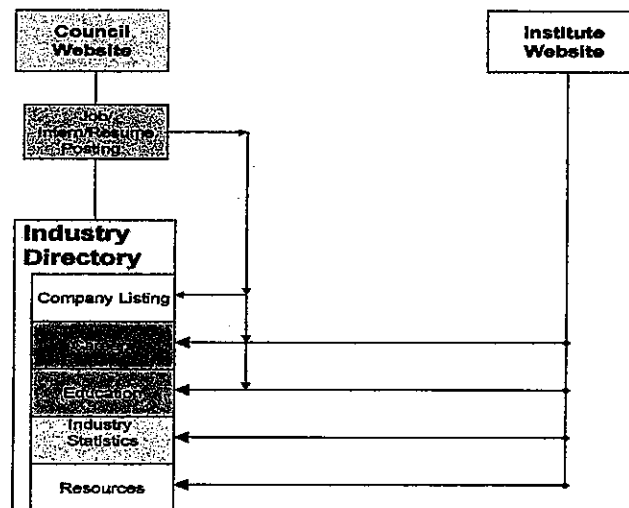
- **# of teachers placed.** In San Diego the teacher externship program has trained a total of 54 teachers
- **# of students reached by each teacher.** In San Diego it is estimated that each teacher reaches an average of 189 students per year, and the program has the potential to expose 16,000 student to new biotechnology curriculum and career information by the end of the 2007-2008 school year.
- **KEY OUTCOME:** Increase in qualified candidates entering the workforce in STEM careers. In San Diego, 20% of the interns placed in these life science internships have continued to work either part or full time for the company in which they interned.

Tactic #2: Coordination of web-based content for Innovation Sector career pathway information and linkages to education

Service Summary and Outcomes

1. Scope of Work, tasks, responsibilities

In a joint project, the Institute and Council have already created the web-based and data infrastructure to support job, internship, resume posting with links to the company listing and search capacity. The Career Center and Industry Directory serve as a foundation of data to meet the needs of stakeholders including students, job seekers, employees, educators, government agency workers, real estate developers and others wishing to access information these sectors.



However, career ladder and lattice descriptions and links to education are missing. Because much of this information already exists, HiSciTech, has begun initial discussions with the Society for Human Resources Managers (SHRM), sub-industry groups as potential partners with deep experience and

sources of information on career pathways. Financial support for this one time project will be used to:

- **Careers.** Gather career pathway information by sector component which articulates and defines science and tech career pathways and links them to job/internship/resume posting functionality. Content will include:
 - Description of career pathways
 - Sample org charts for different size organizations.
 - Job descriptions
- **Education .** Engage UH System and other higher education providers to link students and workforce with information aligned with careers in the areas of:
 - School search – subjects/degrees
 - Areas of study and types of careers
 - School profiles
- **Resources.** Provide links to recruiters, partners and sub-industry groups.

2. Annual Timeline.

We anticipate the project will take one year. The Institute and its partners will seek annual updates to information. Because the formatting and baseline information will have been accomplished with the initial project we believe that industry and its partners will be able to maintain annual updates as required. Therefore, we believe this is a one time project which will not require future year support.

3. Quality Assurance and Evaluation

- Engagement of HR professionals in annual updates to data contained.
- Engagement of Educators in annual updates to education links
- Effectiveness of partnership in particular the coordination of industry participation.

4. Effectiveness Measures

- Website hits
- # of education partners participating
- Accuracy of information and data, frequency of updates
- Level of industry participation

KEY OUTCOME: Increase in qualified candidates entering the workforce in STEM careers.

Tactic #3: Establish an Endowed STEM Scholarship Fund for Students

Service Summary and Outcomes

1. Scope of Work, tasks, responsibilities

HSTI is seeking to build a \$100,000 endowment to fund STEM scholarships. The Institute is seeking a \$50,000 award from the state which would be used as a challenge grant to solicit matching funds from industry across all nine sectors.

2. Annual Timeline.

The objective over time will be to fund five \$1,000 scholarships/year, or 5% of the endowment annual returns. The HSTI will outsource the endowment management to the Hawaii Community Foundation through a Donor Advised Fund. In order to establish the outreach and scholarship award process and to engage industry volunteers, HSTI's first year goal will be to award one \$1,000 scholarship. The HSTI goal is to fully endow the scholarship fund in no more than 5 years.

3. Quality Assurance and Evaluation

- Investment performance of endowment
- Number of companies and individuals donating to endowment
- Amount raised towards endowment
- Number of applicants for STEM scholarships

4. Effectiveness Measures

- Scholarships awarded
- STEM careers chosen by scholarship awardees

KEY OUTCOME: While the long-term goal is to increase in qualified candidates entering the workforce in STEM careers, the key outcome of this project is to increase the number of students in STEM programs.

III. Financial

Budget

1. **The applicant shall submit a budget utilizing the enclosed budget forms as applicable, to detail the cost of the request. See attached.**
2. **The applicant shall provide its anticipated quarterly funding requirements for the fiscal year 2008-2009.**

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total Grant
\$46,000	\$101,000	\$148,500	\$177,000	\$480,000

IV. Experience and Capability

A. Necessary Skills and Experience

The applicant shall demonstrate that it has the necessary skills, abilities, knowledge of, and experience relating to the request. State your experience and appropriateness for providing the service proposed in this application. The applicant shall also provide a listing of verifiable experience of related projects or contracts for the most recent three years that are pertinent to the request.

Major 2007 Accomplishments: HiSciTech Institute/HiSciTech Council

Workforce Development

- Workforce Committee Established, initial goals articulated.
- Sponsorship of STEM Leadership Conference Series – Results include STEM Action plan.
- Convened Young Science & Tech Professionals Group
- Completion and Launch of Job/Internship/Resume Posting Functionality.
50 Jobs & Internships Posted
9 Resumes Posted

Special Projects

- Kaka'ako Coordination -Administration of Kaka'ako Community Revitalization Association Advisory Board

Research: Targeted Industry Portfolio Trend Analysis

- Secured release of \$200,000 Grant in Aid
- Contract signed with DBEDT
- Coordinated work plan with DBEDT and other partners
- Research Steering Committee Established
- Request for Proposals written and administered

Industry Directory/Website

- Industry Directory: Completed, 700 companies listed.
- Industry Directory Public Launch Planned for January, 2008
- HiSciTech new branding completed
- Sector list and sub-industries completed with input from all stakeholders
- New software system, database and website researched best practices & designed
- Request for Proposals for the software/database/website developed and administered
- HiSciTech new state-of-the-art association management software, database and website, developed, integrated and launched
- Completed Website/Industry Directory Marketing Plan
- Sustainable business plan for website operation developed

Networking/Events

- 2nd Friday Tech Download - see attached list
- Science & Tech Day at the Capitol
- January, 2007 Stakeholder Legislative Update
- June 14, 2007 Stakeholder Legislative Update
- Mixers
- 2007 Venture Capital Summit, December 12th The Kahala Hotel

Membership Program Development

- Total Members: 105 members
- Group Purchasing Program Established.

Special Projects – Coordination of China Delegation Visit, September 14, 2007

Communications

- Two E-newsletters published, multiple newspaper articles
- HiSciTech (*Hawaii Science & Technology Council*) logo and branding developed, and website developed and launched

Conferences Attended

- Pac Rim Summit, November, Honolulu
- BIO, Boston, April, 2007
- Council of State Biotech Associations, Honolulu, November

Capital Formation

- 2007 Venture Capital Summit, 120 attendees at the Kahala Hotel.
- Establishment of DoTax/Industry working group which revised form N-317.
- Public relations including multiple Op-Eds and Media Commentaries.

B. Facilities

The applicant shall provide a description of its facilities and demonstrate its adequacy in relation to the request. If facilities are not presently available, describe plans to secure facilities. Also describe how the facilities meet ADA requirements, as applicable.

The Council occupies adequate office space for its operations in the Dillingham Transportation Building, part of the Pacific Guardian Center and meets ADA requirements.

V. Personnel: Project Organization and Staffing

A. Proposed Staffing, Staff Qualifications, Supervision and Training

Lisa H. Gibson, President, Hawaii Science & Technology Institute and Hawaii Science & Technology Council

Lisa Gibson has nearly 30 years experience in organizational and leadership development, fund development, economic development, volunteer management and community-building. She is currently the president and founder of the Hawaii Science & Technology Institute and Hawaii Science & Technology Council. She has held numerous positions in both fund development and senior management, counseled dozens of not-for-profit organizations, created organizations as well as successfully designed and implemented integrated fund development plans resulting in millions of dollars towards sustainable operations, capital and endowment.

Gibson played a key role in the 2005 Hawaii Life Sciences and Innovation Road Map <http://www.hawaiiscitechcouncil.org/documents/HLSCRoadMapFinal.pdf>. This effort involved over 300 stakeholders who identified Hawaii's global science and technology opportunities and formed action plans. Ms. Gibson also worked with Kamehameha Schools in a successful effort to obtain a \$28M New Markets Tax Credit award for the Asia Pacific Research Center in Kaka'ako.

In 1998 Gibson began her active involvement in economic development with her leadership role in the transition of the former Oahu Economic Development board to Enterprise Honolulu. As the former Chief Operating Officer of Enterprise Honolulu she was the co-author of *Target 2005*, the island of Oahu's first comprehensive and performance-based five-year economic development business plan.

Director of Workforce Development. A Director of Workforce Development will be recruited, with the skills and experience demonstrating the ability to coordinate diverse stakeholders from government, industry, education and non-profit organizations. The

workforce coordinator will have a track record of success in leading collaborative efforts in planning and implementing a range of workforce development programs.

Project Supervision

1. Designated GIA Sponsoring Government Agency: University of Hawaii, Office of the Vice President for Research, System (State ID# UH900) Dr. Jim Gaines. The role of the University of Hawaii as the sponsoring agency for the GIA underscores the symbiotic relationship between government, education and industry.

2. HiSciTech Workforce Development Committee. The Hawaii Science & Technology Institute and Council Workforce Development Committees will jointly provide the guidance in an advisory role to the workforce coordinator where industry and key partners are represented on both boards. See attached list of HiSciTech Council and HiSciTech Institute boards of directors.

i. HiSciTech *Institute* Workforce Development Committee Chair

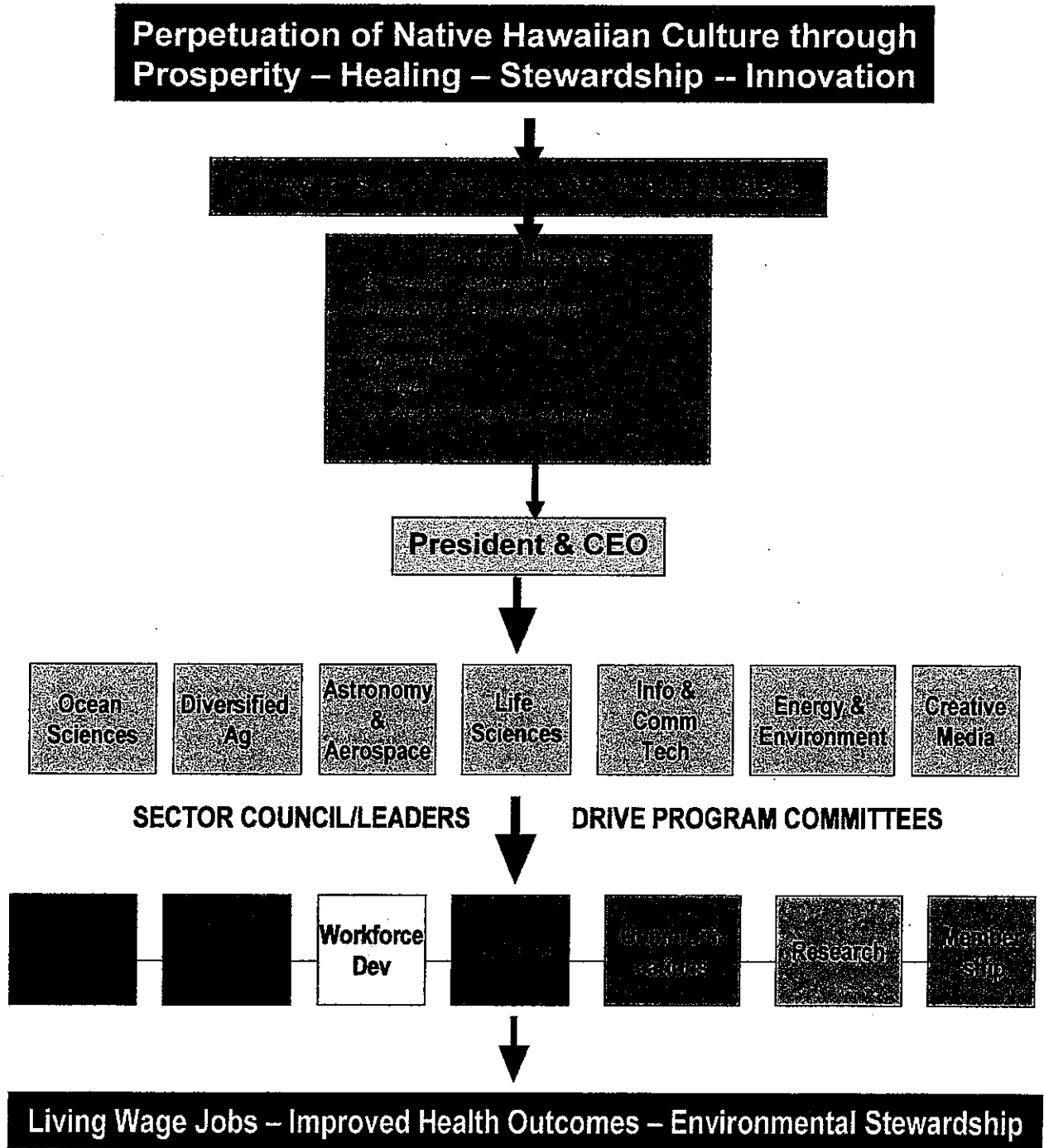
Michael Rota, Associate Vice President for Academic Affairs and Professor is chair of the HSTI Workforce Committee. He is responsible for academic program planning, evaluation and assessment; course and program articulation; regional accreditation; federal higher education and workforce development issues, and collaboration with external agencies. Rota has represented the UH System on the State Workforce Development Council since its inception in 1997, and is a member of the O`ahu Workforce Investment Board where he is the current chair of planning

ii. HiSciTech *Council* Workforce Development Committee Chair

Richard Okazaki, CEO Diganostic Labs, is the chair of the Hawaii Science & Technology Council's workforce committee, the major link to industry partnership. The healthcare industry's workforce challenges are well known and are shared with other sectors. Mr. Okazaki has assembled a workforce development committee with representatives from diverse sectors which will provide significant cross-industry linkages.

B. Organization Chart

THE ORGANIZATION



VI. Other

A. Litigation

The applicant shall disclose any pending litigation to which they are a party, including the disclosure of any outstanding judgment. If applicable, please explain. NA

B. Licensure or Accreditation

Specify any special qualifications, including but not limited to licensure or accreditation that applicant possesses relevant to this request. NA

BUDGET REQUEST BY SOURCE OF FUNDS
(Period: July 1, 2008 to June 30, 2009)

Appl/ail Science & Technology Institute

BUDGET CATEGORIES	Q1	Q2	Q3	Q4	Total Funds
	(a)	(b)	(c)	(d)	(e)
A. PERSONNEL COST					
1. Salaries - Director of Workforce	32,813	32,813	32,813	32,813	131,252
2. Payroll Taxes & Assessments	2,187	2,187	2,187	2,187	8,748
3. Fringe Benefits					
TOTAL PERSONNEL COST	25,000	35,000	35,000	35,000	140,000
B. OTHER CURRENT EXPENSES					
Goal #1: Sector Action Plan: \$200,000					
Consultant/Facilitators		25,000	25,000	50,000	100,000
Student Interns	2,500	2,500	2,500	2,500	10,000
Design/Printing				15,000	15,000
Supplies	1,000	1,000	1,000	1,000	4,000
Travel 12 NI Trips @ 175 each	500	500	500	500	2,000
Meetings	1,000	1,000	1,000	1,000	4,000
Strategy Launch Event				5,000	5,000
3/4 Time Staff Project Manager - see above					
Goal #2: 3 Workforce Tactics					
I. Workforce Student Intrnshps/Teacher Training: \$130,000					
Teacher Stipends 10@2000				20,000	20,000
Full time staff person - see above					
Supplies	250	250	250	2,250	3,000
Meals/Refreshments				2,000	2,000
Transportation				2,000	2,000
Instructors				4,500	4,500
Travel	2,500	2,500			5,000
Meetings	750	750	750	750	3,000
Meida/Printing		2,500	2,500	5,000	10,000
Certificate Ceremony				500	500
II. Career Ladder Content: \$100,000					
Project Manager/Career Ladder Conter	10,000	25,000	25,000	25,000	85,000
Project Manager/Education Link Content		5,000	5,000	5,000	15,000
III. Student Scholarship Program			50,000		50,000
11					
12					

BUDGET JUSTIFICATION - EQUIPMENT AND MOTOR VEHICLES

Applicant: Hawaii Science & Technology Institute Period: July 1, 2008 to June 30, 2009

NA	DESCRIPTION EQUIPMENT	NO. OF ITEMS	COST PER ITEM	TOTAL COST	TOTAL BUDGETED
			\$	-	
			\$	-	
			\$	-	
			\$	-	
			\$	-	
	TOTAL:				
JUSTIFICATION/COMMENTS:					

NA	DESCRIPTION OF MOTOR VEHICLE	NO. OF VEHICLES	COST PER VEHICLE	TOTAL COST	TOTAL BUDGETED
			\$	-	
			\$	-	
			\$	-	
			\$	-	
			\$	-	
	TOTAL:				
JUSTIFICATION/COMMENTS: NA					

**BUDGET JUSTIFICATION
CAPITAL PROJECT DETAILS**

Applicant: Hawaii Science & Technology Institu

Period: July 1, 2008 to June 30, 2009

FUNDING AMOUNT REQUESTED						
TOTAL PROJECT COST	ANY OTHER SOURCE OF FUNDS RECEIVED IN PRIOR YEARS		STATE FUNDS REQUESTED		FUNDING REQUIRED IN SUCCEEDING YEARS	
	FY: 2005-2006	FY: 2006-2007	FY: 2007-2008	FY: 2008-2009	FY: 2009-2010	FY: 2010-2011
PLANS						
LAND ACQUISITION						
DESIGN						
CONSTRUCTION						
EQUIPMENT						
TOTAL:						
JUSTIFICATION/COMMENT NA						

**DECLARATION STATEMENT
APPLICANTS FOR GRANTS AND SUBSIDIES
CHAPTER 42F, HAWAII REVISIED STATUTES**

The undersigned authorized representative of the applicant acknowledges that said applicant meets and will comply with all of the following standards for the award of grants and subsidies pursuant to section 42F-103, Hawaii Revised Statutes:

- (1) Is licensed or accredited, in accordance with federal, state, or county statutes, rules, or ordinances, to conduct the activities or provide the services for which a grant or subsidy is awarded;
- (2) Comply with all applicable federal and state laws prohibiting discrimination against any person on the basis of race, color, national origin, religion, creed, sex, age, sexual orientation, or disability;
- (3) Agree not to use state funds for entertainment or lobbying activities; and
- (4) Allow the state agency to which funds for the grant or subsidy were appropriated for expenditure, legislative committees and their staff, and the auditor full access to their records, reports, files, and other related documents and information for purposes of monitoring, measuring the effectiveness, and assuring the proper expenditure of the grant or subsidy.

In addition, a grant or subsidy may be made to an organization only if the organization:

- (1) Is incorporated under the laws of the State; and
- (2) Has bylaws or policies that describe the manner in which the activities or services for which a grant or subsidy is awarded shall be conducted or provided.

Further, a grant or subsidy may be awarded to a non-profit organization only if the organization:

- (1) Has been determined and designated to be a non-profit organization by the Internal Revenue Service; and
- (2) Has a governing board whose members have no material conflict of interest and serve without compensation.

Further, the undersigned authorized representative certifies that this statement is true and correct to the best of the applicant's knowledge.

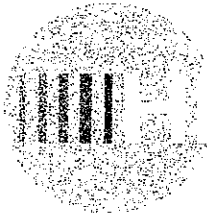
The Hawaii Science & Technology Institute (HSTI is the DBA for the *Hawaii Life Sciences Council*)
(Typed Name of Individual or Organization)


(Signature)

January 31, 2008
(Date)

Lisa H. Gibson
(Typed Name)

President
(Title)



SciTech INSTITUTE

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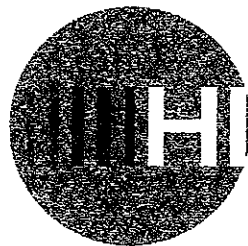
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(Vice Chair)
*Senior Vice President
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Rehabilitation Hospital of
the Pacific

Michael T. Rota
*Associate Vice President
for Academic Affairs
Professor*
University of Hawaii

Robin Danner
President & CEO
Council for Native
Hawaiian Advancement

Lisa H. Gibson
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SciTech

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