

**FB 2009-2011 BUDGET
OPERATING BUDGET ADJUSTMENT REQUEST
UNIVERSITY OF HAWAII**

Program ID/Org. Code: UOH 210/BB
Program Title: University of Hawaii at Hilo

Department Priority _____

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Phone: 808-974-7750

Request Category _____
Fixed Cost/Entitlement _____
Health, Safety, Court Mandates _____
Trade-Off/Transfer (+) _____ (-) _____

I. TITLE OF REQUEST:

Strengthening Educational Excellence and the State Science and Technology Enterprise through
Research Investment

Governor's Program Initiatives (+) _____ (-) _____
Recurring Costs _____
Other X

Description of Request:

Strengthening Educational Excellence and the State S&T Enterprise through Research Investment = \$1,022,760/\$1,237,760

2010 Research Initiative: Alternative Energy and Food Security for Hawai'i through Sustainable Agriculture = \$437,500/\$437,500

Essential Support for Undergraduate STEM Laboratory and Observatory Research Experiences = \$300,000/\$300,000

Establish UHH Office of Vice Chancellor for Research and Graduate Education = \$285,260/\$500,260

How will this request contribute to meeting strategic outcomes:

All of the above requests will directly support the following 2050 Hawai'i Sustainability recommendations for a "Sustainable Hawai'i":

- 1) Strengthen Public Education
- 2) Reduce reliance of fossil fuels
- 3) Promote food security for the State
- 4) Develop more resilient and diversified economy, and
- 5) Strengthen local S&T workforce

All of the above requests will directly address the following UH System Strategic Outcomes and Performance Measures:

- 1) Native Hawaiian Educational Attainment – Position UH as one of the world's foremost indigenous-serving universities by supporting the access and success of Native Hawaiians.
- 2) Hawai'i's Educational Capital – Increase educational capital of the state by increasing the participation and completion of students, particularly Native Hawaiians, low-income students, and those from underserved regions.
- 3) Economic Contribution - Contribute to the State's economy and provide a solid return on its investment in higher education through research and training.
- 4) Globally Competitive Workforce – Address critical workforce shortages and prepare students (undergraduate, graduate, and professional) for effective engagement and leadership in a global environment.
- 5) Resources and Stewardship – Acquire, allocate, and manage public and private revenue streams and exercise exemplary stewardship over all of the University's resources for a sustainable future.

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B. Other Current Expenses (List by line item)									
Alternative Energy and Food Security for Hawaii through Sustainable Agriculture Research Initiative									
Educational Supplies	A	35,000	35,000	35	35	35	35	35	35
Laboratory Supplies	A	50,000	50,000	50	50	50	50	50	50
R&M - Educational/Lab Equipment	A	15,000	15,000	15	15	15	15	15	15
Agriculture Supplies	A	40,000	40,000	40	40	40	40	40	40
R&M , Upkeep Supplies	A	15,000	15,000	15	15	15	15	15	15
Other Supplies	A	7,000	11,500	12	12	12	12	12	12
Transportation, In-State	A	8,000	1,000	1	1	1	1	1	1
Subsistence, In-State	A	5,000	7,500	8	8	8	8	8	8
Support for undergraduate STEM laboratory Research Experience									
Educational Supplies	A	85,000	85,000	89	89	89	89	89	89
Scientific/Laboratory Supplies	A	110,000	110,000	125	125	125	125	125	125
R&M - Educational/Scientific Equipment	A	45,000	45,000	55	55	55	55	55	55
R&M , Upkeep Supplies	A	35,000	35,000	44	44	44	44	44	44
Transportation, In-State	A	15,000	15,000	27	27	27	27	27	27
Subsistence, In-State	A	10,000	10,000	10	10	10	10	10	10
Office of the Vice Chancellor for Research & Graduate Education									
Office Supplies	A	26,350	26,350	27	27	27	27	27	27
Other Supplies	A	25,000	25,000	25	25	25	25	25	25
Transportation, In-State	A	6,120	6,120	7	7	7	7	7	7
Subsistence, In-State	A	3,840	3,840	4	4	4	4	4	4
Transportation, Out-of-State	A	6,000	6,000	7	7	7	7	7	7
Subsistence, Out-of-State	A	1,950	1,950	2	2	2	2	2	2
Photocopy	A	4,000	4,000	4	4	4	4	4	4
R&M, Office Equipment	A	4,000	4,000	4	4	4	4	4	4
Rental, Office Equipment	A	10,000	10,000	10	10	10	10	10	10
Freight and Delivery	A	3,000	3,000	3	3	3	3	3	3
Service, Non-Employee	A	10,000	10,000	10	10	10	10	10	10
Membership	A	5,000	5,000	5	5	5	5	5	5
Subscriptions	A	5,000	5,000	5	5	5	5	5	5
Miscellaneous	A	10,000	10,000	10	10	10	10	10	10
STEM Education, Research and Mentorship									
Office Supplies	A			5	5	5	5	5	5
Educational Supplies	A			10	10	10	10	10	10
Scientific Supplies	A			15	15	15	15	15	15
Robotics/Artificial Intelligence for the future Research Initiative									
Educational Supplies	A			35	35	35	35	35	35
Scientific/Laboratory Supplies	A			50	50	50	50	50	50
R&M - Educational/Scientific Equipment	A			12	12	12	12	12	12
R&M , Upkeep Supplies	A			15	15	15	15	15	15
Transportation, In-State	A			8	8	8	8	8	8
Subsistence, In-State	A			5	5	5	5	5	5
Rural Public Health Service Program									
Educational Supplies	A			15	15	15	15	15	15
Scientific/Laboratory Supplies	A			25	25	25	25	25	25
Transportation, In-State	A			10	10	10	10	10	10
Subsistence, In-State	A			5	5	5	5	5	5
Service, Non-Employee	A			20	20	20	20	20	20

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Subtotal Other Current Expenses			595,260			595,260	879	879	879	879
By MOF										
	A		595,260			595,260	879	879	879	879
	B		-			-	-	-	-	-
	N		-			-	-	-	-	-
	W		-			-	-	-	-	-
C. Equipment (List by line item)										
Subtotal Equipment			-			-	-	-	-	-
By MOF										
	A		-			-	-	-	-	-
	B		-			-	-	-	-	-
	N		-			-	-	-	-	-
	W		-			-	-	-	-	-
L. Current Lease Payments (Note each lease)										
Subtotal Current Lease Payments			-			-	-	-	-	-
By MOF										
	A		-			-	-	-	-	-
	B		-			-	-	-	-	-
	N		-			-	-	-	-	-
	W		-			-	-	-	-	-
M. Motor Vehicles (List Vehicles)										
Subtotal Motor Vehicles			-			-	-	-	-	-
By MOF										
	A		-			-	-	-	-	-
	B		-			-	-	-	-	-
	N		-			-	-	-	-	-
	W		-			-	-	-	-	-
TOTAL REQUEST		6.50	-	1,022,760	8.50	-	1,237,760	2,378	2,378	2,378

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IV. JUSTIFICATION OF REQUEST

In UHH's advancement towards becoming a comprehensive university, it already secures one of the highest rates of extramural funding awards relative to the number of faculty at the institution. UHH ranks third nationally among over 250 Carnegie Masters I & II public institutions in Federal grants and contracts per employee. When compared with public research I universities, UH Hilo ranks above three-fourths of this group on this metric and over better-noted schools such as those at Berkeley and Austin, Texas. UHH funding rose from \$3.2 million in 2000 to \$18.0 million in 2007, an increase of 462.5% compare to the UH System average of 96.7% and UH Manoa average of 85.6% for the same period. From 2000 to 2007, the overall numbers of awards of UH System increased from 1,357 to 1,740. At UH Manoa, the number of awards showed a 22% increase from 1,264 to 1,545. At UHH, the number of awards rose by 341% —from only 22 in 2000 to 97 in 2007. A new culture of "research empowerment" is emerging amongst UHH faculty, and collaborations with the more research-intensive Manoa campus are increasing. Faculty engaged in cutting-edge research efforts in the areas of STEM and other fields can and do enhance the undergraduate learning experience when they bring their work into the classroom. Similarly, faculty research projects serve the foundation for rich training opportunities for graduate students about to enter the workforce. STEM majors represent 20% of the UHH graduating students, approximately twice the national average. The emphasis of STEM education at UHH is consistent with state needs and goals as articulated by the Governor. In addition, the pursuit of research endeavors in which the knowledge generated can benefit the State of Hawaii, its industries and its economy represents a positive return on the investments made in those activities. The following requests will provide seed funding to support the implementation of small, but expected high impact, research initiatives that address State priorities, as well as essential research experiences for UHH STEM students. It will also build minimal but desperately needed administrative support services to allow the growth and expansion of research efforts at UH Hilo as well as the successful application and award of grant funds and other extramural funds to support those research efforts, research experiences for students, and stimulation of S&T business.

Overview: Hawai'i faces challenge of food and fuel security that are driven by economic necessity, global climate warming impacts and extrinsic geopolitical turmoil. Our state imports 85% of its food and all of its oil (less 2 million gallons recovered by Pacific Biodiesel) and uses over 600 million gallons of petroleum per year. The recent decline and crash of the dairy (and poultry) industries in Hawaii have been caused in great part by the high cost of feed, the use of the wrong breed of dairy cows, and a failure of vision. To address these pressing challenges, UHH seeks to broaden its engineering and agriculture faculty while concurrently enhancing the capacity of its education and applied research capabilities across science based departments. New faculty hires will be charged with creating an extramurally funded initiative for developing local state agriculture based biofuels, as well as dairy science. Initial focus for the alternative energy aspect of this initiative will be on Oil Palm, Kukui nut, and algae as biofuel sources in order to build on initial UHH and state efforts. Initial focus for the food security aspect of this initiative will be on developing new breeds from crosses between a tropical breed (Bostaurus) with a good milk producer who produces milk on grass rather than grain to reestablish a sustainable dairy business in Hawai'i. Likely focal research expertise and instruction topics for new faculty will be systems engineering, chemical engineering, and dairy science.

General Performance based outcomes:

Native Hawaiian Educational Attainment

- Increase the number of Native Hawaiians in STEM degree programs
- Increase the retention and completion rates of Native Hawaiians

Hawai'i's Educational Capital

- Increase recruitment of Hawai'i residents
- Increase outreach to low-income students

Economic Contribution

- Increase support for technology transfer development
- Address research needs specific to state and region
- Increase international contract training revenue
- Increase partnerships with business and industry

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Globally Competitive Workforce

- Focus recruitment and retention of students in critical workforce shortage areas
- Increase student support in STEM fields
- Increase collaboration with external partners to address critical workforce shortages
- Promote skills needed for global competence

Resources and Stewardship

- Develop public-private partnerships to address CIP needs
- Reduce the University's utility costs
- Develop private sources in support of the University

V. RELATIONSHIP OF THE REQUEST TO STATE PLAN OR FUNCTIONAL PLAN

Action #1:

Faculty for germination of Alternative Energy and Food Security for Hawai'i through Sustainable Agriculture Research Initiative

Student enrollment at UH Hilo, both for overall and for Native Hawaiians, has steadily increased over the past six (6) academic years. At the same time, enrollment in STEM (Science, Technology, Engineering, Math) majors at UH Hilo has also shown steady growth in both the overall number of STEM students and the number of Native Hawaiian STEM majors in particular. Moreover, statistics for STEM graduation trends show an overall increase in baccalaureates conferred, both for overall and for Native Hawaiian students.

The overall increases in STEM majors has resulted in corresponding increases in both faculty, courses offered, and SSH (student-semester-hours) generated in most departments in the Natural Sciences Division. Unfortunately, the operating budget to the College of Arts and Sciences (CAS) to support the increased number of classes, labs, and undergraduate research internships has lagged behind. As a result, most departments in the Natural Sciences Division have experienced a reduction in their operating budgets per SSH, majors, and faculty. If inflationary pressure is taken into account, the buying power of operating funds is further reduced. Two representative examples are biology and marine science. Over the last five years biology has increased its SSH by 21.9%, majors by 19.3%, and faculty by 25% but its "B" budget has decreased by 6.3% (decreased by 21.3% adjusted for 3% annual inflation). In the same period marine science has increased its SSH by 26.6%, majors by 5.3%, and faculty by 66.7% but its "B" budget has decreased by 16.9% (decreased by 31.9% adjusted for 3% annual inflation). Since the recent approval of the Pharmacy Program, pre-Pharmacy enrollments have increased further stressing participating departments in the Natural Sciences. Bottlenecks especially exist in lower division course offerings in Biology, Chemistry, and Math. Recent hires and new position allocations in those area will reduce or eliminate the bottlenecks but only if Natural Sciences is allocated a substantial increase in its operating budget to 1) catch up lost operating budget ground, 2) to permit the offering of more laboratory sections to support increased lecture enrollments, and 3) to provide research opportunities and internships for STEM majors. Additionally increases in the operating budget are needed for a general increase in the cost of materials and services. UHH is also in the last phase of completing an NSF award for installation of a unique 1M teaching telescope, with teaching operations scheduled to begin in 2009. This hands-on research experience tool is unique in our Nation and will provide our undergraduates with the skills to ensure there high degree of competitiveness in the workforce upon graduation. These unique experiences require operating funds that are included in this request.

Specific metrics to be achieved by FY2012:

- UHH will submit, on average, at least 2 grant applications per year to help expand support for undergraduate student research experiences utilizing the 1M teaching telescope.
- Provide research experiences for at least 7 Native Hawaiian, Pacific Islander and/or low-income state resident undergraduate students.
- Develop agreements for at least 4 student internships or employment, for Native Hawaiian, Pacific Islander and/or low-income state resident undergraduate students, with Mauna Kea astronomy observatories as an outgrowth of student experiences with the 1M teaching telescope.
- Produce at least 4 student presentations and/or posters of research experiences gained with the 1M teaching telescope, to be given at regional, national or international science conferences.

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Performance based outcomes:

Native Hawaiian Educational Attainment

- Increase the number of Native Hawaiians in STEM degree programs
- Increase the retention and completion rates of Native Hawaiians

Hawai'i's Educational Capital

- Increase transfer, retention, and graduation rates of undergraduates
- Decrease time to degree for undergraduates

Economic Contribution

- Address research needs specific to state and region

Globally Competitive Workforce

- Focus recruitment and retention of students in critical workforce shortage areas
- Increase student support in STEM fields
- Promote skills needed for global competence

Action #2:

Essential support for undergraduate STEM Laboratory and Observatory Research Experience

Overview: UH Hilo's mission has evolved and expanded in recent years from a principally undergraduate teaching institution to a one with a significant STEM research focus research as an integral component of both undergraduate and a growing graduate student experience. UHH faculty and students are eager and ideally suited to expand UH System's research enterprise with a priority on weaving Native Hawaiian and Pacific Islander culture and traditional knowledge into STEM research that is aimed at building a globally competitive workforce and diversifying the economic foundation of the State of Hawai'i. UHH has been successful in serving the entire state and the wider Pacific Basin with increasing numbers of badly needed four-year and professional graduates. In a similar vein, as UHH has experienced significant expansion in its research activities, it is also selectively expanding its STEM related graduate programs as approved by UH System when it approved a UHH Graduate Division. UHH is at a point of tremendous growth and expansion, especially in the areas of science and technology. UHH is building the infrastructure, faculty and staff to become a leader in science research in the state and region. UHH has a broad portfolio of externally and state supported projects that are significant in their respective efforts to enhance institutional research capabilities and link research with education.

In order for UHH to achieve its full potential to contribute to the development of a new generation of STEM graduates that will fuel the expansion of Hawai'i's S&T economy, it is essential that a permanent, formal administrative and grants support focal point be created for all UH Hilo research projects and programs, building upon the current ad hoc Research and Graduate Councils and part-time and/or non-state supported faculty and staff. Establishing a UHH Office of Vice Chancellor for Research and Graduate Education is essential for creatively and strategically integrating ongoing STEM research and education grants and program at UHH in such a manner as to broaden participation, attend to critical educational junctures, and/or provide for more globally engaged workforce. Such an office will significantly increase cost-effective utilization of grant indirect/overhead funds, serve as a focal point for all STEM education/training experiences and mentoring that are integrated with UH Hilo research projects, will support the growing research and education diving programs across departments at UHH and in UHH-sponsored community outreach effort such as the very popular QUEST scientific diving course, be responsible for all budgeting/fiscal aspects of research grants, be the primary interface with RCUH, and allow both PIs and students to focus their efforts more directly on their research, education and training. This new UHH office will report directly to UH Hilo VC for Research and Graduate Education. It will also serve as a UHH focal point for leading UHH efforts in S&T economic development, encourage interdisciplinary activities and foster programs that promote S&T economic progress of the state. Currently, a UHH VC for Research position is filled on an interim basis by an employee of the National Science Board who has been temporarily assigned to the university with no salary costs to UH. The position of UHH VC for Research and Graduate Education should be made a permanent UHH position in order to provide the long-term strategic vision and oversight required for the expanding UHH research and graduate programs.

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Specific metrics to be achieved by FY2012:

- UHH will increase both the annual average number and funding level of grants, cooperative agreements and other similar awards for basic and applied research and STEM research experiences for UHH students.
- UHH will increase the average annual number of faculty members who are PI or Co-PI on both research proposals and awards.
- UHH will increase the average annual number of faculty members or are authors or co-authors on STEM research related publications.
- UHH will develop an average of at least two new partnerships with S&T private business entities per year that will focus on joint research and/or research experiences for UHH students.
- UHH will ensure that, on average, at least 20 Native Hawaiian, Pacific Islander and/or low-income state resident students are authors or co-authors on STEM conference presentations/poster or published manuscripts per year.
- UHH will submit, on average, at least 6 grant applications per year to help expand support for undergraduate student research experiences.
- UHH will increase average annual research experiences for Native Hawaiian, Pacific Islander and/or low-income state resident undergraduate students.
- Develop external agreements for at least 6 post-graduate internships or employment in STEM fields each year, for Native Hawaiian, Pacific Islander and/or low-income state resident students.

Performance based outcomes:

Native Hawaiian Educational Attainment

- Increase the number of Native Hawaiians in STEM degree programs
- Increase the retention and completion rates of Native Hawaiians

Hawai'i's Educational Capital

- Increase transfer, retention, and graduation rates of undergraduates
- Decrease time to degree for undergraduates
- Increase recruitment of Hawai'i residents
- Increase outreach to low-income students

Economic Contribution

- Address research needs specific to state and region
- Increase partnerships with business and industry

Globally Competitive Workforce

- Focus recruitment and retention of students in critical workforce shortage areas
- Increase student support in STEM fields
- Increase collaboration with external partners to address critical workforce shortages
- Promote skills needed for global competence

Resources and Stewardship

- Develop public-private partnerships to address CIP needs
- Develop private sources in support of the University

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Action #3:

Establish UHH Office of Vice Chancellor for Research and Graduate Education

Overview: UH Hilo's mission has evolved and expanded in recent years from a principally undergraduate teaching institution to a one with a significant STEM research focus research as an integral component of both undergraduate and a growing graduate student experience. UHH faculty and students are eager and ideally suited to expand UH System's research enterprise with a priority on weaving Native Hawaiian and Pacific Islander culture and traditional knowledge into STEM research that is aimed at building a globally competitive workforce and diversifying the economic foundation of the State of Hawaii. UHH has been successful in serving the entire state and the wider Pacific Basin with increasing numbers of badly needed four-year and professional graduates. In a similar vein, as UHH has experienced significant expansion in its research activities, it is also selectively expanding its STEM related graduate programs as approved by UH System when it approved a UHH Graduate Division. UHH is at a point of tremendous growth and expansion, especially in the areas of science and technology. UHH is building the infrastructure, faculty and staff to become a leader in science research in the state and region. UHH has a broad portfolio of externally and state supported projects that are significant in their respective efforts to enhance institutional research capabilities and link research with education.

In order for UHH to achieve its full potential to contribute to the development of a new generation of STEM graduates that will fuel the expansion of Hawaii's S&T economy, it is essential that a permanent, formal administrative and grants support focal point be created for all UH Hilo research projects and programs, building upon the current ad hoc Research and Graduate Councils and part-time and/or non-state supported faculty and staff. Establishing a UHH Office of Vice Chancellor for Research and Graduate Education is essential for creatively and strategically integrating ongoing STEM research and education grants and program at UHH in such a manner as to broaden participation, attend to critical educational junctures, and/or provide for more globally engaged workforce. Such an office will significantly increase cost-effective utilization of grant indirect/overhead funds, serve as a focal point for all STEM education/training experiences and mentoring that are integrated with UH Hilo research projects, will support the growing research and education diving programs across departments at UHH and in UHH-sponsored community outreach effort such as the very popular QUEST scientific diving course, be responsible for all budgeting/fiscal aspects of research grants, be the primary interface with RCUH, and allow both PIs and students to focus their efforts more directly on their research, education and training. This new UHH office will report directly to UH Hilo VC for Research and Graduate Education. It will also serve as a UHH focal point for leading UHH efforts in S&T economic development, encourage interdisciplinary activities and foster programs that promote S&T economic progress of the state. Currently, a UHH VC for Research position is filled on an interim basis by an employee of the National Science Board who has been temporarily assigned to the university with no salary costs to UH. The position of UHH VC for Research and Graduate Education should be made a permanent UHH position in order to provide the long-term strategic vision and oversight required for the expanding UHH research and graduate programs.

Specific metrics to be achieved by FY2012:

- UHH will increase both the annual average number and funding level of grants, cooperative agreements and other similar awards for basic and applied research and STEM research experiences for UHH students.
- UHH will increase the average annual number of faculty members who are PI or Co-PI on both research proposals and awards.
- UHH will increase the average annual number of faculty members or are authors or co-authors on STEM research related publications.
- UHH will develop an average of at least two new partnerships with S&T private business entities per year that will focus on joint research and/or research experiences for UHH students.
- UHH will ensure that, on average, at least 20 Native Hawaiian, Pacific Islander and/or low-income state resident students are authors or co-authors on STEM conference presentations/poster or published manuscripts per year.
- UHH will submit, on average, at least 6 grant applications per year to help expand support for undergraduate student research experiences.
- UHH will increase average annual research experiences for Native Hawaiian, Pacific Islander and/or low-income state resident undergraduate students.
- Develop external agreements for at least 6 post-graduate internships or employment in STEM fields each year, for Native Hawaiian, Pacific Islander and/or low-income state resident students.

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Performance based outcomes:

Native Hawaiian Educational Attainment

- Increase the number of Native Hawaiians in STEM degree programs
- Increase the retention and completion rates of Native Hawaiians

Hawai'i's Educational Capital

- Increase transfer, retention, and graduation rates of undergraduates
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Economic Contribution

- Address research needs specific to state and region
- Increase partnerships with business and industry

Globally Competitive Workforce

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Resources and Stewardship

- Develop public-private partnerships to address CIP needs
- Develop private sources in support of the University

CRITICAL NEEDS TO BE ADDRESSED IN 2012 AND BEYOND

Action #4:

Weave varied approaches for STEM education, research and mentorship into meaningful change: jobs and diversifying the face of STEM faculty

Overview:

The UHH Office of VC for Research and Graduate Education will serve as the overarching institutional focal point for coordination of all STEM mentorship programs and integration with ongoing and future research projects, with an aim to build synergy between the many capacity-building and mentorship programs and support available to STEM majors at UHH, and thereby increase institutional effectiveness in broadening participation. Our goal is to create and demonstrate proof of concept for a new paradigm model aimed at transformationally increasing participation of under-represented cultural, socio-economic and ethnic groups from the Pacific Islands in science, technology, engineering and mathematics (STEM) undergraduate and graduate education, attainment of BS, MS and PhD STEM degrees, and broadening participation of these groups in university teaching and research positions.

Enhanced educational and training experience for UH Hilo students at both the undergraduate and graduate level in STEM fields is absolutely essential. Six state supported research assistantships/traineeships will be distributed in three new research initiative focal areas (see below) and/or in other research projects conducted at UHH. UHH will provide PhD student fellowship awards to UHH STEM graduates to pursue their PhD studies at an "off-island" institution provided that their research is focused in the Hawaiian Islands. It is envisioned that the partnering PhD granting institution will have an active interest in conducting research activities in Hawai'i and that the PhD student will spend significant time during their PhD work in Hawai'i. This arrangement will also foster inter-institutional cooperation between faculty and stimulate new research partnerships.

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UHH will also pro-actively broaden current research and education partnerships with various federal agencies conducting research in Hawai'i (i.e., NOAA, USFS, USFWS) to provide additional opportunities for PhD student research. It is expected that these post-doc positions will provide a launching platform for the incumbents to secure tenure track faculty positions at UHH or elsewhere. By having the post-docs spend a portion of their time teaching, the next cohort of students will have tangible role models in the classroom and in the lab. In addition to providing at least one post-doc position each year, UHH will proactively make employment connections for our graduates with the numerous federal, state and private employers in Pacific Islands that need PhD level employees. This will again serve as positive reinforcement for local students that getting a STEM degree can lead to jobs in the islands.

VI. ELECTRONIC DATA PROCESSING

N/A

VII. IMPACT ON OTHER STATE PROGRAMS/AGENCIES

N/A

VIII. IMPACT ON FACILITY REQUIREMENTS (R&M, CIP)

N/A

IX. EXTERNAL CONFORMANCE REQUIREMENTS

NA/

X. OTHER COMMENTS

N/A