Notice of Meeting
UNIVERSITY OF HAWAI‘I
BOARD OF REGENTS COMMITTEE ON RESEARCH AND INNOVATION

Members: Regents Bal (Chair), Haning (Vice-Chair), Mawae, Tochiki, and Wilson

Date: Thursday, February 2, 2023
Time: 10:45 a.m.
Place: University of Hawai‘i at Mānoa
Information Technology Building
1st Floor Conference Room 105A/B
2520 Correa Road
Honolulu, Hawai‘i 96822

See the Board of Regents website to access the live broadcast of the meeting and related updates: www.hawaii.edu/bor

AGENDA

I. Call Meeting to Order
II. Approval of Minutes of the October 6, 2022 Meeting
III. Public Comment Period for Agenda Items:

Individuals who are unable to provide testimony at this time will be allowed an opportunity to testify when specific agenda items are called.

All written testimony on agenda items received after posting of this agenda and up to 24 hours in advance of the meeting will be distributed to the board. Late testimony on agenda items will be distributed to the board within 24 hours of receipt. Written testimony may be submitted via the board’s website through the testimony link provided on the Meeting Agendas, Minutes and Materials page. Testimony may also be submitted via email at bor.testimony@hawaii.edu, U.S. mail at 2444 Dole Street, Bachman 209, Honolulu, HI 96822, or facsimile at (808) 956-5156.

Those wishing to provide oral testimony virtually may register here. Given the constraints with the format of hybrid meetings, individuals wishing to orally testify virtually must register no later than 7:30 a.m. on the day of the meeting in order to be accommodated. Registration for in-person oral testimony on agenda items will also be provided at the meeting location 15 minutes prior to the meeting and closed at the posted meeting time. It is highly recommended that written testimony be submitted in addition to registering to provide oral testimony. Oral testimony will be limited to three (3) minutes per testifier.

Although remote oral testimony is being permitted, this is a regular meeting and not a remote meeting by interactive conference technology under Section 92-3.7, Hawai‘i Revised Statutes (HRS). Therefore, the meeting will continue
notwithstanding loss of audiovisual communication with remote testifiers or loss of the public broadcast of the meeting.

All written testimony submitted are public documents. Therefore, any testimony that is submitted orally or in writing, electronically or in person, for use in the public meeting process is public information and will be posted on the board’s website.

IV. Agenda Items

A. Research Project Briefing: “Advancing the Innovation Ecosystem in Hawai‘i”
   Presentation by the University of Hawai‘i Office of Innovation and Commercialization

B. Research Corporation of the University of Hawai‘i (RCUH) Presentation

C. Recommend Board Approval of Amendments to Regents Policy (RP) 6.203, Attachment 1, Board of Regents Approved Fees

D. Fiscal Year 2023 (FY23) Mid-Year Extramural Awards Update
   1. FY23 Mid-Year Extramural Awards Analysis
   2. FY23 Mid-Year Research and Innovation Metrics Summary
   3. FY23 Monthly Report of Extramural Awards (as of December 31, 2022)

V. Adjournment
I. CALL TO ORDER

Chair Eugene Bal called the meeting to order at 11:04 a.m. on Thursday, October 6, 2022, at the University of Hawai‘i (UH) at Mānoa, Information Technology Building, 1st Floor Conference Room 105A/B, 2520 Correa Road, Honolulu, Hawai‘i 96822, with regents participating from various locations.

Committee members in attendance: Chair Eugene Bal; Vice-Chair William Haning; Regent Kelli Acopan; Regent Laurie Tochiki; and Regent Ernest Wilson.

Others in attendance: Board Chair Randy Moore; Regent Wayne Higaki; Regent Alapaki Nahale-a (ex officio committee members); President David Lassner; Vice President (VP) for Community Colleges Erika Lacro; VP for Research and Innovation Vassilis Syrmos; VP for Information Technology/Chief Information Officer Garret Yoshimi; UH Hilo Chancellor Bonnie Irwin; UH West O‘ahu Chancellor Maenette Benham; Associate VP for Legal Affairs Gary Takeuchi; Executive Administrator and Secretary of the Board of Regents (Board Secretary) Kendra Oishi; and others as noted.

II. APPROVAL OF MINUTES

Chair Bal inquired if there were any corrections to the minutes of the May 5, 2022, committee meeting which had been distributed. Hearing none, the minutes were approved.

III. PUBLIC COMMENT PERIOD

Board Secretary Oishi announced that the Board Office did not receive any written testimony, and no individuals signed up to provide oral testimony.

IV. AGENDA ITEMS

A. Research Project Briefing: “University of Hawai‘i Center for Indigenous innovation and Health Equity (CIIHE)” Presentation by Kamuela Enos, Director, Office of Indigenous Innovation, and Dr. Aimee Grace, Director, Office of Strategic Health Initiatives

VP Syrmos briefly spoke about the origins of the CIIHE initiative as well as its founders, Kamuela Enos, Director of the Office of Indigenous Innovation, and Dr. Aimee Grace, Director of the Office of Strategic Health Initiatives, citing their numerous
individual and joint accomplishments. He introduced Director Enos, who would be presenting on this matter, and noted that Dr. Grace was scheduled to speak at a conference and could not attend this meeting.

Director Enos provided background information on the establishment of CIIHE, including the rationale for and roots of its genesis, stating that the initiative was based upon a hypothesis that the most effective intervention to reduce health disparities and achieve health equity was the restoration of ancestral practices for indigenous communities. He recognized the core collaborators and community partners involved with CIIHE; reviewed the key premise of CIIHE which posits that the contemporary application of ancestral knowledge and systems is a means of addressing the current healthcare and poverty inequities facing indigenous populations and frames equity as an exit strategy from this disparity; and spoke about projects and studies that influenced the creation of CIIHE, including the Mauli Ola Study, MA’O Youth Leadership Training Program, studies on the health benefits associated with hula and the revival of native languages, and a project about the potential for indigenous post-war ceremonial cleansing practices to be utilized in reducing post-traumatic stress disorder.

It was noted that one of the initial actions taken by the CIIHE initiative upon being awarded grant funding was the onboarding of team members. Director Enos highlighted the work of these individuals as being key to the success of CIIHE and asked each member to introduce themselves. Jonny Tudela Aldan, Jr., Sharde Freitas, Shanda Delos Reyes, and Ikaika Ramones each introduced themselves, spoke about their backgrounds and projects they are working on, and extolled the beneficial impacts CIIHE can have on indigenous communities across the globe.

Director Enos reviewed activities undertaken by CIIHE during the first year of its existence, including the creation of an indigenous framework that would be used to guide the initiative’s actions; the performance of a landscape analysis survey to ascertain and examine the types of indigenous innovations that were already in existence; the holding of landscape analysis workshops to encourage collaborations between indigenous populations; and synthesizing data obtained from the survey and workshops. He also spoke about CIIHE’s second year plans which will be focused on establishing more stable sources of program funding, strengthening internal capacities, completing work on research initiatives that have already been instituted, launching a research incubator, advancing policy strategies to expand indigenous innovation practices, and exploring economic development as well as commercialization opportunities for indigenous innovation practitioners and organizations.

Regent Wilson asked how the actions taken by CIIHE and the processes used to develop the initiative’s activities could be expanded to benefit more indigenous communities throughout the Pacific region. Dr. Enos replied that CIIHE falls within the jurisdiction of the United States Department of Health and Human Services’ Office of Minority Health and therefore has the potential to impact Native American and Alaska Native populations in addition to Native Hawaiians and other Pacific Islanders. While CIIHE intends to collaborate with indigenous populations across the Pacific region, he noted that overcoming challenges to empowerment and scaling of these activities will require working with communities to gain a level of trust among their members.
Nevertheless, CIIHE has received a groundswell of support from native populations for its efforts.

Regents commended the inspiring work of Director Enos, Dr. Grace, and the CIIHE team, noting the impacts of their efforts on the community.

Citing a general need for project scrutiny, Vice-Chair Haning questioned whether individuals have leveled any criticisms against the work of CIIHE and, if so, what the concerns entailed. Director Enos replied that rigor is a hallmark of indigenous thinking. Although he was unaware of specific criticisms about the work CIIHE was doing, concerns have been raised regarding the representation of Pacific Islanders residing on the continent as well as the protection of indigenous knowledge once it enters the larger realm. CIIHE intends to collaborate with communities of practice, faculty, and others to address these concerns, as well as attend to any criticisms brought forth. Vice-Chair Haning thanked Director Enos for his response but suggested that CIIHE retain an individual that has reservations about the program’s work to review its projects. Director Enos stated that constructive criticism either leads to affirmation of an idea or refinement of a concept and CIIHE would welcome any and all such feedback.

Chair Bal stated his belief that the work being done by CIIHE is powerful and necessary but expressed his concern with the Center’s avenue for funding noting its current reliance on grant funding and donations to remain operational. He encouraged CIIHE to build its reputation and engender the confidence of the federal government to the point where the initiative can receive regular programmatic funding in the future. Director Enos agreed with Chair Bal’s assessment and stated that the development of a financial sustainability plan is a priority for CIIHE.

### B. Research and Innovation Fiscal Year (FY) 2022 Year-in-Review and FY 2023 Outlook

VP Syrmos reported on the extramural awards received for FY 2022; provided a breakdown of trends, significant awards, and award amounts by campus; and summarized data pertaining to various research and innovation metrics. He highlighted that the university received a record $505 million in extramural awards for FY 2022 and noted that extramural funding obtained for the first quarter of FY 2023 is approximately 10 percent higher than the same period last fiscal year. He also reviewed the number of invention disclosures made, the number of patents applied for, and the number of licenses/options awarded for research projects for FY 2022. The administration remains cautiously optimistic that the university’s extramural funding efforts will continue to experience success with total extramural award revenues predicted to be near $495 million for FY 2023.

VP Syrmos credited administrators, faculty, staff, students, colleagues, and his predecessors for the achievements that have been made with respect to the receipt of extramural research funding stating that a feat of this magnitude is the result of years of work. He also expressed his belief that the university must continue to invest in research and development initiatives in order to sustain this success.
Board Chair Moore asked whether inflation was factored into extramural research funding requests, particularly with respect to multi-year proposals. VP Syrmos replied in the affirmative stating that faculty members use a cost-escalation modeling factor of between two and three percent to adjust for inflation when developing their research proposals. However, he noted that the unprecedented and unanticipated surge in inflation that has recently been experienced has resulted in the underfunding of some projects which is problematic and something the administration is currently working to address.

C. Strategic Directions: Extramural Awards Targets vs. Actuals FYs 2015 – 2022

VP Syrmos provided historical trend data of annual targets versus the actual amount of extramural awards received since 1975, noting that information of both research and non-research extramural award targets versus actuals for each of the major units of the university during the last five years was provided in the meeting materials. He stressed that research takes time to produce results and emphasized that, with patience as well as timely and appropriate investments, the receipt of extramural funding can and will continue to increase for the university.

Chair Bal referenced discussions with VP Syrmos and others regarding the importance of strategic hiring and investments in the growth of extramural funding stating that he was heartened to see things coming to fruition.

D. Committee Work Plan

Chair Bal referenced the Committee Work Plan noting that it would be used as an outline of the work to be performed by the committee during the coming year. He stated that it was a living document that may be modified as needed, highlighted that the timing for the presentation of extramural award reports was changed from quarterly to semiannually, and asked committee members if they had any questions or comments about the Work Plan. None were raised.

V. ADJOURNMENT

There being no further business, Chair Bal adjourned the meeting at 12:09 p.m.

Respectfully Submitted,

Kendra T. Oishi
Executive Administrator and Secretary of the Board of Regents
MEMORANDUM

TO: Randolph G. Moore  
Chairperson, Board of Regents  

Eugene Bal III, Chair  
BOR Committee on Research and Innovation  

VIA: David Lassner  
President  

FROM: Vassilis L. Syrmos  
Vice President for Research and Innovation  

SUBJECT: BOR COMMITTEE ON RESEARCH AND INNOVATION AGENDA MATERIALS FOR FEBRUARY MEETING

Please find attached the following materials that will be discussed at the February 2, 2023 BOR Committee on Research and Innovation meeting:

IV. Agenda Items:

A. Research Project Briefing: "Advancing the Innovation Ecosystem in Hawai'i" Presentation by UH Office of Innovation and Commercialization

B. Research Corporation of the University of Hawai'i Presentation (*RCUH Executive Director presentation)

C. Recommend Amendment of Attachment 1 to RP 6.203, Entitled "Board of Regents Approved Fees" to Add References to Research Recharge Center in Section 5

D. Fiscal Year 2023 Mid-Year Extramural Awards Update (*VPRI presentation)
   1. FY23 Mid-Year Extramural Awards Analysis Report
   2. FY23 Mid-Year Research and Innovation Metrics Summary
   3. FY23 Monthly Report of Extramural Awards (as of December 31, 2022)
ADVANCING THE INNOVATION ECOSYSTEM IN HAWAI‘I

FEBRUARY 2, 2023
UH Strategic Plan 2023-2029

Imperative: Diversify Hawai‘i’s economy through UH innovation and research

Goal: Build and sustain a thriving UH research and innovation enterprise that addresses local and global challenges by linking fundamental scientific discovery with applied research necessary for technological innovation to create jobs and advance a knowledge-based economy.
TEAM

STEVE AUERBACH
Interim Director

GLORIA CHOO
Regional Engagement Principal, Hawai‘i,
National Security Innovation Network (NSIN)

REBECCA CHUNG, PhD
Technology Licensing Officer & Associate Director, Innovation Programs

GEORGE YARBROUGH
Associate Director, Entrepreneurship Programs

ANN PARK
Senior Technology Licensing Officer
PROGRAMS

EDUCATE
*Innovation and entrepreneurship training programs*
- Hacking4X
- Faculty Fellows

IDEATE
*Commercialization guidance and development support*
- Patents2Products
- NSF I-Corps

INCUBATE
*Startup growth and advancement opportunities*
- HITIDE
HACKING4X

Strategic partnership with the U.S. Department of Defense National Security Innovation Network (NSIN) that allows students to work in multidisciplinary teams and rapidly iterate solutions to real-world problems

TARGET
• Undergraduate & graduate students
• Faculty advisors

TOPICS
• Environment - Spring 2023
• Defense - Spring 2023
• Health - to launch 2024

IMPACT
• Increase industry collaboration
• Develop early-stage solutions and dual-use ventures
• Provide internship and job opportunities
FACULTY FELLOWS

Selective program to enhance faculty involvement and engagement to establish an active network to weave in innovation and entrepreneurship principles into course curricula

TARGET

• UH faculty
  ➢ 1st Cohort: Faculty members from UHM College of Engineering

IMPACT

• Broaden innovation mindset
• Expand innovation and entrepreneurial faculty network
• Enhance innovation and entrepreneurship in the general curriculum to create innovation class designations and certificates across the UH System
PATENTS2PRODUCTS

A unique fellowship focused on increasing innovation capacity and developing entrepreneurial skills while advancing the development of UH technologies

TARGET
- PhD candidates
- Postdoctoral researchers
- Faculty in research labs with UH intellectual property (IP)

IMPACT
- Increase innovation workforce and capacity
- Advance UH IP technology
- Grow industry collaboration and mentorship
- Create awareness in the commercialization process.
NSF I-CORPS

A national, virtual, entrepreneurial training program that helps advance university-developed technologies into products and services that benefit society.

TARGET

• Anyone with innovative university-developed, research-based “deep tech” venture products & services

IMPACT

• Assess market potential and exploration of commercialization pathways
• Develop business model
• Advance company creation and success
• Develop a broad network of partners and opportunities amongst regions and universities beyond UH
A UH System incubator program that provides wrap-around services tailored to support the unique needs of academic entrepreneurs

TARGET
Individuals, teams or startups with “deep tech” that are:
• UH-affiliated
• Science-based
• Impact-driven
• Commercialization potential

IMPACT
• Support new, deep-tech businesses
• Launch startups/spinouts
• Access funding (SBIR/STTR, contracts)
• Revenue opportunities in the form of equity
Supercooling Technology

• No thawing or freezer burn
• Extends shelf life, preserves freshness and quality
• Reduces waste and saves money
• Impacts cold chain supply, industrial and personal refrigeration

JOURNEY

• Technology disclosed and protected
• Spin-off company created
• MIC tenant and UH graduate employer
• Technology licensed to Xerox PARC spin-off, EverCase Inc.
IMpact

$10.97M
Revenue Generated

23
Active Startups

149
Active License Agreements

472
Inventions Disclosed

74
Patents Issued

*Cumulative since 2014
UH RESEARCH

From distant galaxies to the ocean depths ... and everywhere in between™

research.hawaii.edu
RCUH Presentation for the UH BOR Research & Innovation Committee

February 2, 2023
Presentation Outline

- About RCUH
- Overview of RCUH Financials
- 2022-2026 Strategic Plan
- What's to Come in 2023
About RCUH
A Brief Background

The Research Corporation of the University of Hawai‘i (RCUH) was established by the Hawai‘i State Legislature in 1965 as a public instrumentality and is attached to the University of Hawai‘i for administrative purposes. RCUH provides the ancillary services to hire personnel and procure goods/services on behalf of its clients (e.g., UH, state agencies, private not-for-profits).

MISSION
To support and enhance research, development, and training in Hawai‘i, with a focus on the University of Hawai‘i.

VISION
A Hawai‘i where research, development, and training flourish and energize a prosperous state economy.
Historical Highlights

June 1965
Governor John A. Burns signed into law House Bill 1227, which established the Research Corporation of the University of Hawai‘i.

April 1995
SB634 passed making the UH President also President of RCUH. The board composition changed to 5 appointees by the Governor and 5 UH Regents. RCUH also executed the Master Agreement with the State of Hawai‘i.

July 2000
UH President Kenneth Mortimer issues a memo determining that it would be more effective and efficient to use the services of RCUH to manage all sponsored research and training projects.

July 2013
Act 288 restructures RCUH Board composition from 10 to 8 members (current format). It also removes the UH President as President of RCUH.
RCUH Board of Directors

Eugene Bal III
Chair, UH Board of Regents Appointee

Kelli Goodin
Vice Chair, Governor’s Non-UH Research Organization Appointee

Ken Hayashida
Governor’s Business Sector Appointee

David Karl
Governor’s UH System Research Faculty Member Appointee

Jaret KC Leong
House Speaker’s Appointee

Diane Paloma
UH Board of Regents Appointee

Taryn Salmon
Senate President’s Appointee

Vassilis Syrmos
UH Vice President for Research and Innovation (ex-officio, non-voting)
RCUH's Function
What is our purpose?

Research contracts often require a much more flexible and streamlined method of operation than is permitted by typical state agencies, which is one of the primary reasons why RCUH was created. In order to help the University run more like a business, RCUH was established to help hire personnel and procure goods and services in an expeditious manner. To provide this flexibility and expedite actions for research projects, RCUH is excepted from certain state laws, such as:

- **Sections 36-27 and 36-30**, relating to special fund reimbursements to the state general fund
- **Chapter 103D**, relating to procurement and construction contracts *
- **Chapter 76**, relating to civil service
- **Section 78-1**, relating to public employment

* Provided that the exception shall not apply where state funds are used and compliance with Chapter 103D is required by a bill enacted by the legislature
RCUH Operations & Services

Departments

**Finance**
- Accounting
- Disbursing
- Employee Travel
- Procurement
- Project Administration

**Human Resources**
- Employee Benefits
- Employment
- Information Systems
- Payroll
- Recruitment

**Corporate Services**
- Board Matters
- Communications
- Executive Office Support
- Online Training
- Special Events
Project Portfolio

Who We Serve

Although the numbers fluctuate throughout the year, RCUH services approximately 3,800 active research and training projects and processes more than $250 million in annual expenditures for researchers.

These projects employ approximately 2,500 individuals in a wide range of fields, including astronomy, oceanography, health, human services, natural resources, agriculture, education, business, and other areas. Employees are located throughout the state of Hawai‘i, as well as the continental U.S. and other countries.
FY 2022 Projects by County

**HONOLULU**
- 3,500 PROJECTS
- 1,623 EMPLOYEES
- $240,668,024 VOL. OF BUSINESS

**HAWAI’I**
- 404 PROJECTS
- 542 EMPLOYEES
- $29,209,577 VOL. OF BUSINESS

**MAUI**
- 124 PROJECTS
- 270 EMPLOYEES
- $16,852,041 VOL. OF BUSINESS

**KAUAI’I**
- 17 PROJECTS
- 70 EMPLOYEES
- $1,248,030 VOL. OF BUSINESS

OTHER (Continental U.S. + International)
- 161 EMPLOYEES

NOTE: "Volume of Business" is the amount of expenditures processed in RCUH’s Financial System, **NOT RCUH revenue**.
RCUH hires are state, non-civil service employees

All employees are subject to all applicable RCUH policies and procedures, UH and/or business entities' policies and procedures (as applicable), as well as the Hawaii State Ethics Code.

Employment is dependent upon funding

Since RCUH employees are not paid from appropriated General funds (G-funds), continuation of employment is dependent upon availability of funds, program needs, satisfactory work performance, and compliance with applicable federal and state laws.

RCUH employees are non-union and have different benefits from UH/State employees

RCUH employees are not eligible for State health insurance retirement benefits and do not participate in the State Employees' Retirement System (ERS).
Guidelines for Hiring RCUH Employees
(for UH Projects)

AP 12.203

1. Any UH request which involves the appointment of an RCUH employee for a covered type of position shall be accompanied by a Service Order Personnel Form which must be reviewed and approved by the UH Office of Human Resources before it is sent to the UH Office of the Vice President for Research and Innovation for final institutional approval.

2. Any covered type of position that is continuously filled by an RCUH employee for three years shall be subject to review and re-authorization by the UH Office of Human Resources and VPRI.

3. RCUH shall not establish any covered type of position unless it has been specifically approved by the UH Office of Human Resources and VPRI.
Overview of RCUH Financials
RCUH's Operations

How is RCUH funded?

RCUH does not directly receive any appropriated G-funds from the State Legislature to support its operations. Instead, RCUH is funded through fees collected from a percentage of expenditures that run through RCUH's Financial System.

University of Hawai‘i projects pay RCUH based on the applicable formula/rate stated in the Internal Agreement between UH and RCUH. Direct projects from state agencies follow the formula listed in the Master Agreement.

It cost UH just 2.5% of its FY 2022 expenditures to run its research and training projects through RCUH.
RCUH REVENUE SOURCES

**UH EXTRAMURAL PROJECTS**
Externally sponsored federal and non-federal contracts, grants, and other agreements

**UH INTRAMURAL PROJECTS**
Internally sponsored programs or activities funded with UH Research and Training Revolving Funds (RTRF) or Tuition and Fee Special Funds (TFSF)

**UH REVOLVING PROJECTS**
Self-sustaining, income-generating projects established to support a specialized service activity, a recharge center, or other sales and service activities

**DIRECT PROJECTS**
Projects assigned to and accepted by RCUH from non-UH organizations, including federal and state agencies, international organizations, and other not-for-profit organizations
**Current UH Management Fee**

(Agreement since 2007 and restated in 2017)

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Cost Base</th>
<th>Cost Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>UH Extramural Projects</td>
<td>RCUH Operating Expense</td>
<td>% = Extramural MTDC / All Projects MTDC</td>
</tr>
<tr>
<td>UH Intramural Projects</td>
<td>MTDC</td>
<td>2.9%</td>
</tr>
<tr>
<td>UH Revolving Accounts</td>
<td>MTDC</td>
<td>2.9%</td>
</tr>
</tbody>
</table>

**Modified Total Direct Cost (MTDC)** is a federal term used to determine reimbursable indirect costs on grants and contracts. MTDC includes costs such as salaries and wages, applicable fringe benefits, materials and supplies, services, travel, and the first $25,000 of each subaward. In accordance with the federal definition, it excludes costs such as equipment, capital expenditures, scholarships and fellowships, and the portion of each subaward in excess of $25,000.
FY 2022 VOLUME OF BUSINESS
(Monies that were processed in the RCUH Financial System on behalf of research projects)

**EXTRAMURAL EXPENDITURES**
$220,558,687
or
76.6%
of RCUH's volume of business

**REVOLVING EXPENDITURES**
$32,732,567
or
11.4%
of RCUH's volume of business

**INTRAMURAL EXPENDITURES**
$14,867,158
or
5.2%
of RCUH's volume of business

**DIRECT EXPENDITURES**
$19,819,260
or
6.9%
of RCUH's volume of business

**TOTAL FY 2022 EXPENDITURES**: $287,977,672
FY 2022 RCUH REVENUE
(RCUH Revenue collected from UH Extramural, Intramural, and Revolving Projects)

EXTRAMURAL FEES
$5,486,221
or
2.5%
of UH’s Extramural Expenditures

REVOLVING FEES
$806,350
or
2.5%
of UH’s Revolving Expenditures

INTRAMURAL FEES
$412,528
or
2.8%
of UH’s Intramural Expenditures

TOTAL FEES PAID BY UH
$6,705,099
or
2.5%
of UH's Expenditures processed by RCUH
FY 2022 RCUH Revenue (from UH Projects)

FY 2022 Fees Collected from UH:  
$6,705,099

- Extramural ($5,486,221)
- Revolving ($806,350)
- Intramural ($412,528)
NOTE: Extramural awards can extend across multiple fiscal years, and not all expenditures are run through RCUH (e.g., salaries for UH researchers).
FY 2022
RCUH Revenue
(from Direct Projects)

FY 2022 Fees Collected from Direct Projects:
$732,743

- Non-State ($412,215)
- State ($320,528)
Goal #1:
Evaluate and implement recommendations from the RCUH Task Force.

- RCUH and UH leadership met in March 2022 and determined that no changes were necessary to the Internal Agreement.

- RCUH discussed its working capital reserve at the December 2022 Board of Directors meeting; a formal policy will be proposed at the March 2023 meeting.

- RCUH is working with UH to assist in the transition of Revolving Accounts to the Kuali Financial System.

- RCUH continues to collaborate with UH VPIT/CIO Garret Yoshimi on its MFA initiative and the replacement of its AS400 accounting system.
Goal #2:
Clarify RCUH's identity with UH and the State.

- "Introduction to RCUH" presentation developed and published on RCUH's website for a comprehensive look at RCUH's operations.

- RCUH met with State administrators, City & County administrators, and non-profits to discuss RCUH's services.

- The corporation accepted nine new Direct Projects in 2022, however one proposal was declined as the desired services were not consistent with RCUH's aligned mission.
2022-2026 Strategic Plan

Goal #3: Reform RCUH's Internal Operations.

- Developed Job Description Library to provide centralized storage for all established JDs unique to each project.

- Implemented automated email notifications from the HR Portal for Notice of Position Selections, Notice of Closed Recruitments, and Termination procedures.

- Developed eUpload feature in HR Portal/Employee Self-Service to provide users with a secure method to upload sensitive documents to RCUH Human Resources.

- Increased retention of core staff.

- Onboarded IT System/Security Administrator, HR Director.
Goal #4: Increase engagement and outreach to clients.

- RCUH held a virtual forum in May 2022 titled "Pathways to Research Success: Lessons Learned," which featured three experienced and successful UH Principal Investigators imparting their knowledge to newer researchers.

- RCUH has increased its collaboration with UH offices and departments in an effort to communicate a consistent message to UH researchers (e.g., Office of Data Governance, Office of Human Resources, Office of Strategic Development and Partnerships).
What's to Come in 2023
Priorities in 2023

- Establish a single physical location for core staff
- Replace the AS400 and transition to an enterprise platform for RCUH's various systems
- Determine appropriate working capital reserve policy
- Evaluate RCUH policies and streamline internal procedures
- Perform operational audit/SWOT analysis
- Coordinate professional development opportunities for project & core staff
- Schedule more face-to-face interactions with PIs & researchers
The Value of Research Funding

In May 2021, the Economic Research Organization at the University of Hawai‘i released a report, which found that each research-related dollar generated $1.83 of total business sales, $0.59 of employee earnings, and $0.10 of state tax revenue; and each million dollars of spending generated 13.5 local jobs.

Remembering the Mission: Supporting Research, Development, and Training in Hawai‘i

After supporting researchers in Hawai‘i for more than 50 years, RCUH is taking a closer look on how to reduce the administrative burden on researchers so that they can focus more time on their research. Using feedback from our clients, RCUH is committed to increasing administrative efficiencies, while following proper compliance with the State and federal government, as well as UH policies.
QUESTIONS?

For the full presentation, please visit:
https://www.rcuh.com/about/about-us/
Contact Us
For questions or more info:

Address
1601 East-West Road, Burns Hall 4th Floor, Makai Wing
Honolulu, HI 96848

Phone Number
(808) 956-0503

Email Address
rcuhed@rcuh.com
MEMORANDUM

TO: Randolph G. Moore  
Chairperson, Board of Regents

Eugene Bal III  
Chair, Committee on Research and Innovation  
Board of Regents

VIA:  
David Lassner  
President

Debora Halbert  
Vice President for Academic Strategy

FROM: Vassilis L. Syrmos  
Vice President for Research and Innovation

SUBJECT: RECOMMEND AMENDMENT OF ATTACHMENT 1 TO RP 6.203, ENTITLED “BOARD OF REGENTS APPROVED FEES” TO ADD REFERENCES TO RESEARCH RECHARGE CENTER IN SECTION 5

SPECIFIC ACTION REQUESTED:

It is requested that the Board of Regents (“BOR”) approve the amendment of Attachment 1 to RP 6.203, Fees, to add a reference to Research Recharge Center fees in Section 5 (Ancillary and Auxiliary Service Fees) of the attachment as a type of BOR approved fee. Research Recharge Centers are being established at the University of Hawaii (“UH”) under Hawai‘i Revised Statutes (HRS) §304A-2157 University of Hawaii auxiliary enterprises special fund.

RECOMMENDED EFFECTIVE DATE:

The recommended effective date is upon Board approval.

PURPOSE:

The purpose of the requested action is to allow for UH to collect fees related to the Research Recharge Center Special Fund accounts.

BACKGROUND INFORMATION:
As presented by Dr. Vassilis Syrmos, Vice President for Research and Innovation to the BOR Committee on Independent Audit on April 7, 2022 with an update on June 1, 2022 (available at https://www.hawaii.edu/offices/bor/archive/index.php), UH Revolving Funds that are currently established at RCUH will be transferred to UH accounts in order to implement oversight, promote transparency and ensure compliance with Federal regulations (2 CFR 200.468 Specialized service facilities) and UH Policies and Procedures (AP 12.204). Oversight and monitoring of such accounts will also ensure that user fees / billing rates are set to recover no more than the total costs of providing such goods or services. Research Recharge Center Special Fund accounts shall accumulate no more than sixty days of working capital to cover cash expenses.

Attachment 1, Section 5, to RP 6.203 lists various Ancillary and Auxiliary Service Fees approved by the BOR. Given the plan to transfer the UH Revolving Funds from RCUH to UH, the BOR is requested to approve the addition of Section 5.m. to RP 6.203, and other edits for clarity, such that Section 5.m. will read as follows:

"Research Recharge Center fees"

**ACTION RECOMMENDED:**

It is recommended that the BOR approve the amendment of Attachment 1 to RP 6.203, entitled "Board of Regents Approved Fees" to add reference to 5.m., Research Recharge Center fees.

Attachments
- RP 6.203 (original)
- RP 6.203 (redline)
- RP 6.203 (clean)

c: Executive Administrator and Secretary to the Board of Regents
I. **Purpose:**

To set forth policy establishing board-approved fees and fee adjustment authority.

II. **Definitions:**

No policy specific or unique definitions apply.

III. **Policy:**

A. The following fees, which impact a student’s cost of attendance, are established by the board and in specific instances the fee amounts themselves require approval by the board. Proposals for new fees that impact a student’s cost of attendance must be approved by the board, and accompanied by operational and financial plans that describe when the proposed fees will begin, when the proposed services will be available, and whether and how fee revenue will be utilized in any interim period to support start up the new services. These include:

1. Professional fees, which may be assessed to students enrolled in select undergraduate professional programs that have high costs in comparison to other instructional programs with the same tuition. Revenues from fees are earmarked to ensure programs have the equipment, supplies, and services available to meet accreditation standards. The students are generally assessed the professional fee once each semester during enrollment in the program. The fee is not necessarily applied during summer or other short terms;

   Increases to professional fees are capped at the rate of undergraduate resident tuition increases for that campus during the same academic year the proposed fee increase will take effect. For example, if the rate of increase for resident undergraduate tuition at a campus is three percent in the next academic year, likewise, professional fee increases can be increased up to no more than three percent in that same academic year;
The president or the president’s designee is delegated the authority to approve proposed adjustments to previously established professional fees that fall at or below the cap. Proposed increases above the cap must be approved by the board. Proposals must be submitted for approval at least one semester in advance of the effective date. Professional fees are to be reviewed annually by the campus. The schedule of professional fees is available in Executive Policy E6.201, Tuition Schedules.

2. Mandatory student fees

a. Mandatory student fees shall be generally assessed of all students, in amounts set in accordance with Board of Regents policies, and as set forth in a fees schedule attached to Executive Policy EP 6.208.

b. Student organization fees are mandatory fees used to fund the operations of student governance organizations and other co-curricular student activities, publications, broadcasting, and campus center operations.

c. Distance education students who cannot take advantage of services offered by the student organizations, such as those requiring on-campus attendance, may be exempt from the assessment of these fees; and

d. The president or the president’s designee is delegated the authority to adjust these fees (with the exception of mandatory student fees related to intercollegiate athletics and UPASS), provided that fee increases shall not exceed the increase in the real cost of services provided to the students or 3% per year, whichever is less. The president shall first consult with the respective student government and provide a minimum of a one semester notice to the student body of a fee increase, and a written report to the board outlining the rationale for the increase.

B. The following fees are established by the board. Once a fee is established by the board in the following categories, the board delegates to the president the authority to make adjustments to the fee rate. These types of fees include:

1. Housing fees, including but not limited to application and cancellation fees. Housing room rates are distinct from “housing fees,” and student housing room rates are established pursuant to Regents Policy RP 7.205.

2. Course and laboratory fees, which may be assessed to students enrolled in select courses that have unique costs in comparison to standard offerings or which are outside the normal credit course offerings;

3. Transaction and service fees, which may be assessed to users of selected services as a means to offset all or part of the cost of providing the service or as a result of other directly related costs incurred to the institution;
4. Ancillary and auxiliary service fees, which are the charges for certain university services used by students, faculty, staff, and the general public. The revenues are used to offset all or part of the operational costs of providing those services, including in some instances the bond indebtedness. Programs shall be responsible for providing public notice of the applicable charges;

5. Commercial enterprise and other self-supporting operations which are certain programs, goods, and services provided by the university to students and the general community on a self-support basis. These programs are expected to make sufficient revenue to offset their costs and to provide overhead support to overall campus operations. Because the charges associated with these programs, goods, and services are subject to market demand, changing supply costs, competition, and rapid change, they are not subject to prior approval by the board; and

6. Athletic admission fees and charges to athletic events, which are charges to university athletic events based on the premise that athletic programs are expected to be largely self-sufficient while providing one of the major venues for interaction between the university and its external constituencies.

C. A list of board-approved fees (including, but not limited to, mandatory student fees, housing fees, course and laboratory fees, transaction and service fees, ancillary and auxiliary service fees, and athletic admission fees and charges to athletic events) may be found as Attachment 1 at the end of this chapter.

IV. Delegation of Authority:

Authority to approve proposed increases to previously established professional fees that fall at or below the cap is delegated to the president or president’s designee. See RP 6.203(A)(1).

Authority to raise mandatory student fees (with the exception of mandatory student fees related to intercollegiate athletics and UPASS) by up to 3% per year, but no more than the increase in the real cost of services provided to the students is delegated to the president or president’s designee. See RP 6.203(A)(2)(d).

Authority to adjust fee rate delegated to the president. See RP 6.203(B).

V. Contact Information:

Office of the Vice President for Academic Planning & Policy, 956-6897, ovpaa@hawaii.edu
VI. **References:**

   A. [http://www.hawaii.edu/offices/bor/](http://www.hawaii.edu/offices/bor/)
   
   B. RP 7.205
   
   C. EP 6.202

**Approved as to Form:**

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/S/ ___________________________  09/20/2018  
Kendra Oishi  
Executive Administrator and  
Secretary of the Board of Regents
I. **Purpose:**

To provide Attachment 1 to RP 6.203 that sets forth policy establishing board-approved fees and adjustment authority.

II. **Definitions:**

None.

III. **Policy:**

See RP 6.203.

IV. **Delegation of Authority:**

See RP 6.203.

V. **Contact Information:**

Office of the Vice President for Academic Planning & Policy, 956-6897, ovpaa@hawaii.edu

VI. **References:**

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- RP 7.205
- EP 6.202

**Approved as to Form:**

/ /S/ 09/20/2018
Kendra Oishi Date
Executive Administrator and Secretary of the Board of Regents
Board of Regents Policy, RP 6.203, Attachment 1
Board of Regents Approved Fees

1. **Mandatory Student Fees**
   a. Student activity and program fees;
   b. Student publication fees;
   c. Campus center/student union fees;
   d. Student government fees;
   e. Campus communication fees;
   f. Student health fees in cases where the health fee is mandatory for all students;
   g. Student technology fees;
   h. U-PASS/Transportation fees; and
   i. Student athletic fees.

2. **Housing Fees**
   a. Student housing at UH-Mānoa, UH-Hilo, and Maui College; and
   b. Faculty housing.

3. **Course and Laboratory Fees**
   a. Credit by examination;
   b. Laboratory fees designed to recover costs of supplies and materials consumed including fees for televised courses to recover the costs associated with the use of copyrighted materials that carry a per-student license charge; and
   c. Applied music fees.

4. **Transaction and Service Fees**
   a. Application fee;
   b. Late registration fee;
   c. Change in registration fee;
   d. Thesis fee;
   e. Diploma fee;
f. Transcript and associated rush fees;
g. Returned check fees;
h. Collection agency fee;
i. ID Card fees;
j. Test proctoring and examination fees;
k. New student orientation fee; and
l. Health insurance fees where health insurance is not mandatory.

5. Ancillary and Auxiliary Service Fees
   a. Parking and parking fines;
b. Transportation services;
c. Library fines and non-return costs;
d. Library cost recovery fees including but not limited to: copying, digitizing, microform services, preservation services, archival research, document retrieval and delivery, photographic services, and other library-related services.
e. Other copying and printing charges;
f. Charges associated with use of University facilities;
g. Locker fees;
h. Dental hygiene clinic fee (UH Mānoa);
i. Individual health services visits where a mandatory health fee is not charged;
j. Child care;
k. Laboratory animal services; and
l. Telecommunications charges.

6. Commercial Enterprise and Other Self-Supporting Operations.
   a. All commercial enterprise activities, goods and services including charges to the public for services provided or produced by students in the course of their studies;
b. UH Bookstore charges;
c. Food service operations conducted by the University;
d. Non-credit offerings made available to the general public and/or to companies and organizations through contract;

e. Conference and symposium activities;

f. Special events such as lectures, performances, video presentations, and similar events;

g. Information technology services including videoconferencing and software licenses;

h. Agricultural diagnostic service fees; and

i. Waikīkī Aquarium admission and user fees.

7. Athletic Admission Fees and Charges to Athletic Events

   a. Football
   b. Women’s Volleyball
   c. Men’s Basketball
   d. Wahine Basketball
   e. Men’s Volleyball
   f. Baseball
   g. Wahine Softball
   h. Wahine Soccer
   i. Water Polo
I. Purpose:

To provide Attachment 1 to RP 6.203 that sets forth policy establishing board-approved fees and adjustment authority.

II. Definitions:

None.

III. Policy:

See RP 6.203.

IV. Delegation of Authority:

See RP 6.203.

V. Contact Information:

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VI. References:

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Approved as to Form:

/\S/ Kendra Oishi 09/20/2018
Executive Administrator and Secretary of the Board of Regents
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a. Student housing at UH-Mānoa, UH-Hilo, and Maui College; and
   
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3. **Course and Laboratory Fees**
   
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6. Commercial Enterprise and Other Self-Supporting Operations.
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i. Waikīkī Aquarium admission and user fees.

7. **Athletic Admission Fees and Charges to Athletic Events**
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   h. Wahine Soccer
   i. Water Polo
REGENTS POLICY

Regents Policy Chapter 6, Tuition, Financial Assistance, and Fees
Regents Policy RP 6.203, Attachment 1, Board of Regents Approved Fees
Effective Date: XXX XX, 2023
Review Date: August 2026

I. Purpose:
   To provide Attachment 1 to RP 6.203 that sets forth policy establishing board-approved fees and adjustment authority.

II. Definitions:
   None.

III. Policy:
   See RP 6.203.

IV. Delegation of Authority:
   See RP 6.203.

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f. Baseball

g. Wahine Softball

h. Wahine Soccer

i. Water Polo
FY23 Mid-Year Extramural Awards Report

BOR Committee on Research and Innovation
February 2, 2023
FY 23 Mid-Year Recap

- Year to date (YTD) awards as of 12/31/2022 were $13.7 million or 4.5% more than the FY 22 mid-year YTD total.

- It appears that the university is on track to hit $500 million for the second year in a row if current trends continue.
Extramural Awards
($ millions)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Q1</td>
<td>165.8</td>
<td>181.8</td>
<td>164.5</td>
<td>182.2</td>
<td>176.1</td>
<td>188.3</td>
<td>180.6</td>
<td>197.2</td>
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<td>Q2</td>
<td>56.9</td>
<td>59.5</td>
<td>62.0</td>
<td>76.2</td>
<td>79.1</td>
<td>114.6</td>
<td>128.2</td>
<td>125.4</td>
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<td>Q3</td>
<td>66.2</td>
<td>67.1</td>
<td>71.0</td>
<td>77.3</td>
<td>55.7</td>
<td>60.7</td>
<td>96.9</td>
<td>TBD</td>
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<td>Q4</td>
<td>102.4</td>
<td>78.6</td>
<td>88.8</td>
<td>90.5</td>
<td>139.5</td>
<td>121.9</td>
<td>99.3</td>
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<td>FY</td>
<td>391.3</td>
<td>387.0</td>
<td>386.3</td>
<td>426.2</td>
<td>450.4</td>
<td>485.5</td>
<td>505.0</td>
<td>322.6</td>
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## Significant Awards by Campus

<table>
<thead>
<tr>
<th>Campus</th>
<th>Sponsor Type</th>
<th>Sponsor</th>
<th>Title</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mānoa</td>
<td>Federal</td>
<td>Department of Homeland Security</td>
<td>National Disaster Preparedness Training Center</td>
<td>5,000,000</td>
</tr>
<tr>
<td>Hilo</td>
<td>Federal</td>
<td>Department of Education</td>
<td>E Hoi I Ke Kumu</td>
<td>1,105,219</td>
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<tr>
<td>West O'ahu</td>
<td>Federal</td>
<td>Department of Education</td>
<td>He Paepae Aloha: A Foundation of Caring</td>
<td>944,307</td>
</tr>
<tr>
<td>Hawai'i CC</td>
<td>Federal</td>
<td>National Science Foundation</td>
<td>Geospatial Remote Sensing Hawaii</td>
<td>643,865</td>
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<tr>
<td>Honolulu CC</td>
<td>Federal</td>
<td>Department of Education</td>
<td>Ola Niuhelewai - Improving Native Hawaiian Success through Well-Being</td>
<td>1,005,547</td>
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<tr>
<td>Kapi‘olani CC</td>
<td>Federal</td>
<td>National Science Foundation</td>
<td>Louis Stokes B2B Alliance: Strategic Transfer Alliance for Minority Participation (STAMP) Training While Online (TWO)</td>
<td>1,082,983</td>
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<tr>
<td>Kaua‘i CC</td>
<td>Federal</td>
<td>Department of Education</td>
<td>Maau: The Perpetuation of Well-Being</td>
<td>598,930</td>
</tr>
<tr>
<td>Leeward CC</td>
<td>Federal</td>
<td>Department of Education</td>
<td>E Ho‘akea I Ke ‘Ike: Extend the Vision</td>
<td>550,000</td>
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<tr>
<td>Maui College</td>
<td>Federal</td>
<td>Department of Education</td>
<td>Kahokuala: The Rising Star</td>
<td>550,000</td>
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<tr>
<td>Windward CC</td>
<td>Federal</td>
<td>Department of Education</td>
<td>Kukulu ‘Ohana: Building the Family</td>
<td>586,053</td>
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<tr>
<td>UH System</td>
<td>Federal</td>
<td>Department of Commerce</td>
<td>Hawaii Good Jobs Challenge: Resilient Hawaii</td>
<td>16,351,025</td>
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## Award Amounts by Location ($ millions)

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<thead>
<tr>
<th>Campus</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2023-22 Change*</th>
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<tbody>
<tr>
<td>Mānoa</td>
<td>189.7</td>
<td>201.7</td>
<td>216.8</td>
<td>204.1</td>
<td>-5.8%</td>
</tr>
<tr>
<td>Hilo</td>
<td>7.5</td>
<td>10.3</td>
<td>14.1</td>
<td>13.9</td>
<td>-1.0%</td>
</tr>
<tr>
<td>West O'ahu</td>
<td>2.6</td>
<td>1.8</td>
<td>5.5</td>
<td>3.8</td>
<td>-30.1%</td>
</tr>
<tr>
<td>Hawaiʻi CC</td>
<td>1.7</td>
<td>1.6</td>
<td>3.2</td>
<td>3.0</td>
<td>-6.2%</td>
</tr>
<tr>
<td>Honolulu CC</td>
<td>1.7</td>
<td>1.7</td>
<td>2.4</td>
<td>2.2</td>
<td>-9.9%</td>
</tr>
<tr>
<td>Kapiʻolani CC</td>
<td>2.5</td>
<td>2.8</td>
<td>4.1</td>
<td>5.6</td>
<td>36.2%</td>
</tr>
<tr>
<td>Kauaʻi CC</td>
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<td>1.0</td>
<td>2.9</td>
<td>2.3</td>
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<tr>
<td>Leeward CC</td>
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<td>1.2</td>
<td>3.7</td>
<td>3.1</td>
<td>-17.5%</td>
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<tr>
<td>Maui College</td>
<td>14.1</td>
<td>11.7</td>
<td>12.5</td>
<td>5.9</td>
<td>-52.6%</td>
</tr>
<tr>
<td>Windward CC</td>
<td>4.5</td>
<td>4.9</td>
<td>9.4</td>
<td>4.3</td>
<td>-54.0%</td>
</tr>
<tr>
<td>UH System</td>
<td>28.2</td>
<td>64.2</td>
<td>34.2</td>
<td>74.4</td>
<td>116.8%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>255.2</td>
<td>302.9</td>
<td>308.8</td>
<td>322.6</td>
<td>4.5%</td>
</tr>
</tbody>
</table>

* The percent change over the prior year is calculated using the actual figures not the rounded figures.
Major Changes by Location

- **UH Mānoa decrease** - The $12.7 million decrease is attributed as follows:
  - There was a $10 million award from the Department of Agriculture and a $7.2 million award from the Moore Foundation in the first half of FY 22. There were no comparable awards over $5 million in the first half of FY 23.
Major Changes by Location

- **UH Maui College decrease** - The $6.6 million decrease is attributed as follows:
  - There were $3.4 million in awards from the National Science Foundation and a $702,814 award from the Hawaiʻi Department of Human Services in the first half of FY 22. There were no comparable awards in the first half of FY 23.
  - Timing of awards - $1.7 million of incremental and supplemental awards from the Department of Education were received in the first half of FY 22. Similar increments may be received in the second half of FY 23 instead.
Major Changes by Location

- **Windward CC decrease** - The $5.1 million decrease is attributed as follows:
  - There was a large $2.6 million award from the Department of Education and a $883,221 award from the Hawaiʻi Department of Human Services in the first half of FY 22. There were no comparable awards in the first half of FY 23.
  - Timing of awards - $1.4 million of incremental awards from the Department of Education were received in the first half of FY 22. Similar increments may be received in the second half of FY 23 instead.
Major Changes by Location

- **UH System increase** - The $40.2 million increase is attributed to federal sponsors as follows:
  - Two new awards - $16.3 million from the Department of Commerce and $2.4 million from the Office of Naval Research.
  - Increase in incremental funding in the amount of $8.1 million from the Department of the Air Force.
  - Timing of awards - $5.9 million from the Department of Defense and $6.7 million from the Department of Education were received in the first half of FY 23. These awards were received in the second half of FY 22 instead.
FY 23 Mid-Year Extramural Awards Analysis Report

I. Summary

The extramural awards for Fiscal Year (FY) 23 as of December 31, 2022 totaled $322.6 million, which is $13.7 million or 4.5% more than the FY 22 mid-year total. At this mid-year point, the university could be on track to breaking $500 million for the second year in a row.

II. Mid-Year Performance Metrics

As previously stated, extramural awards for the first half of FY 23 were $13.7 million or 4.5% more than the first half of FY 22. See section IV. Award Trends by Campus for an explanation of major increases or decreases that contributed to the FY 23 mid-year results.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Half</td>
<td>222.7</td>
<td>241.3</td>
<td>226.5</td>
<td>258.4</td>
<td>255.2</td>
<td>302.9</td>
<td>308.8</td>
<td>322.6</td>
</tr>
<tr>
<td>2nd Half</td>
<td>168.6</td>
<td>145.7</td>
<td>159.8</td>
<td>167.8</td>
<td>195.2</td>
<td>182.7</td>
<td>196.2</td>
<td>TBD</td>
</tr>
<tr>
<td>Total</td>
<td>391.3</td>
<td>387.0</td>
<td>386.3</td>
<td>426.2</td>
<td>450.4</td>
<td>485.5</td>
<td>505.0</td>
<td>322.6</td>
</tr>
</tbody>
</table>

Extramural Awards - Mid-Year
($ millions)

1 Unlike prior fiscal years, FY 2019 does not include deobligations or corrections to previously reported amounts. If included, FY 2019 would be $421.8 million.
III. Significant Awards by Campus

At the mid-year point of FY 23, UH received 990 awards from 291 different sponsors. The following table reports the largest awards received during the first half of FY 23 by campus.

<table>
<thead>
<tr>
<th>Campus</th>
<th>Sponsor Type</th>
<th>Sponsor</th>
<th>Project Title</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mānoa</td>
<td>Federal</td>
<td>Department of Homeland Security</td>
<td>National Disaster Preparedness Training Center</td>
<td>5,000,000</td>
</tr>
<tr>
<td>Hilo</td>
<td>Federal</td>
<td>Department of Education</td>
<td>E Hoi I Ke Kumu</td>
<td>1,105,219</td>
</tr>
<tr>
<td>West O’ahu</td>
<td>Federal</td>
<td>Department of Education</td>
<td>He Paepae Aloha: A Foundation of Caring</td>
<td>944,307</td>
</tr>
<tr>
<td>Hawai’i CC</td>
<td>Federal</td>
<td>National Science Foundation</td>
<td>Geospatial Remote Sensing Hawaii</td>
<td>643,865</td>
</tr>
<tr>
<td>Honolulu CC</td>
<td>Federal</td>
<td>Department of Education</td>
<td>Ola Niulelewai - Improving Native Hawaiian Success through Well-Being</td>
<td>1,005,547</td>
</tr>
<tr>
<td>Kapi‘olani CC</td>
<td>Federal</td>
<td>National Science Foundation</td>
<td>Louis Stokes B2B Alliance: Strategic Transfer Alliance for Minority Participation (STAMP) Training While Online (TWO)</td>
<td>1,082,983</td>
</tr>
<tr>
<td>Kaua‘i CC</td>
<td>Federal</td>
<td>Department of Education</td>
<td>Mauo: The Perpetuation of Well-Being</td>
<td>598,930</td>
</tr>
<tr>
<td>Leeward CC</td>
<td>Federal</td>
<td>Department of Education</td>
<td>E Ho‘akea I Ke ’Ike: Extend the Vision</td>
<td>550,000</td>
</tr>
<tr>
<td>Maui College</td>
<td>Federal</td>
<td>Department of Education</td>
<td>Kahokuala: The Rising Star</td>
<td>550,000</td>
</tr>
<tr>
<td>Windward CC</td>
<td>Federal</td>
<td>Department of Education</td>
<td>Kukulu ‘Ohana: Building the Family</td>
<td>586,053</td>
</tr>
<tr>
<td>UH System²</td>
<td>Federal</td>
<td>Department of Commerce</td>
<td>Hawaii Good Jobs Challenge: Resilient Hawaii</td>
<td>16,351,025</td>
</tr>
</tbody>
</table>

² UH System represents units under Vice Presidents that receive extramural funding. Examples include the P20 and Gear Up grants under the VP for Academic Affairs; Maui High Performance Computing Center and Pacific Disaster Center contracts under the VP for Information Technology; Applied Research Laboratory task orders under the VP for Research and Innovation; and the Pacific Business Center Program under the VP for Community Colleges.
IV. Award Trends by Campus

The following table summarizes the awards received during the first half of FY 23 by campus.

<table>
<thead>
<tr>
<th>Campus</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
<th>2023-22 Change³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mānoa</td>
<td>189.7</td>
<td>201.7</td>
<td>216.8</td>
<td>204.1</td>
<td>-5.8%</td>
</tr>
<tr>
<td>Hilo</td>
<td>7.5</td>
<td>10.3</td>
<td>14.1</td>
<td>13.9</td>
<td>-1.0%</td>
</tr>
<tr>
<td>West O‘ahu</td>
<td>2.6</td>
<td>1.8</td>
<td>5.5</td>
<td>3.8</td>
<td>-30.1%</td>
</tr>
<tr>
<td>Hawai‘i CC</td>
<td>1.7</td>
<td>1.6</td>
<td>3.2</td>
<td>3.0</td>
<td>-6.2%</td>
</tr>
<tr>
<td>Honolulu CC</td>
<td>1.7</td>
<td>1.7</td>
<td>2.4</td>
<td>2.2</td>
<td>-9.9%</td>
</tr>
<tr>
<td>Kapi‘olani CC</td>
<td>2.5</td>
<td>2.8</td>
<td>4.1</td>
<td>5.6</td>
<td>36.2%</td>
</tr>
<tr>
<td>Kaua‘i CC</td>
<td>1.2</td>
<td>1.0</td>
<td>2.9</td>
<td>2.3</td>
<td>-21.9%</td>
</tr>
<tr>
<td>Leeward CC</td>
<td>1.5</td>
<td>1.2</td>
<td>3.7</td>
<td>3.1</td>
<td>-17.5%</td>
</tr>
<tr>
<td>Maui College</td>
<td>14.1</td>
<td>11.7</td>
<td>12.5</td>
<td>5.9</td>
<td>-52.6%</td>
</tr>
<tr>
<td>Windward CC</td>
<td>4.5</td>
<td>4.9</td>
<td>9.4</td>
<td>4.3</td>
<td>-54.0%</td>
</tr>
<tr>
<td>UH System</td>
<td>28.2</td>
<td>64.2</td>
<td>34.2</td>
<td>74.4</td>
<td>116.8%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>255.2</td>
<td>302.9</td>
<td>308.8</td>
<td>322.6</td>
<td>4.5%</td>
</tr>
</tbody>
</table>

Major dollar increases and decreases are attributed as follows:

UH Mānoa decrease: The $12.7 million decrease is attributed as follows:
- There was a $10 million award from the Department of Agriculture and a $7.2 million award from the Moore Foundation in the first half of FY 22. There were no comparable awards over $5 million in the first half of FY 23.

UH Maui College decrease: The $6.6 million decrease is attributed as follows:
- There were $3.4 million in awards from the National Science Foundation and a $702,814 award from the Hawai‘i Department of Human Services in the first half of FY 22. There were no comparable awards in the first half of FY 23.
- Timing of awards – $1.7 million of incremental and supplemental awards from the Department of Education were received in the first half of FY 22. Similar increments may be received in the second half of FY 23 instead.

Windward CC decrease: The $5.1 million decrease is attributed as follows:
- There was a large $2.6 million award from the Department of Education and a $883,221 award from the Hawaii Department of Human Services in the first half of FY 22. There were no comparable awards in the first half of FY 23.
- Timing of awards - $1.4 million of incremental awards from the Department of Education were received in the first half of FY 22. Similar increments may be received in the second half of FY 23 instead.

³ The percent change over the prior fiscal year is calculated using the actual figures not the rounded figures.
**UH System increase:** The $40.2 million increase is attributed to federal sponsors as follows:

- Two new awards -$16.3 million from the Department of Commerce and $2.4 million from the Office of Naval Research.
- Increase in incremental funding in the amount of $8.1 million from the Department of the Air Force.
- Timing of awards - $5.9 million from the Department of Defense and $6.7 million from the Department of Education were received in the first half of FY 23. These awards were received in the second half of FY 22 instead.

**V. Forecast vs. Actuals**

Results for the first half of FY23 were about $15.5 million or 5.0% more than forecast.

<table>
<thead>
<tr>
<th>FY23</th>
<th>Forecast</th>
<th>Actual</th>
<th>Variance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Half</td>
<td>307.1</td>
<td>322.6</td>
<td>14.4%</td>
</tr>
<tr>
<td>2nd Half</td>
<td>188.2</td>
<td>TBD</td>
<td>N/A</td>
</tr>
<tr>
<td>Total</td>
<td>495.3</td>
<td>322.6</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Extramural Sponsor Awards
Quarterly Summary

<table>
<thead>
<tr>
<th>Program Type</th>
<th>Count</th>
<th>Amount</th>
<th>Count</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research</td>
<td>194</td>
<td>$47,017,617</td>
<td>247</td>
<td>$66,487,369</td>
</tr>
<tr>
<td>Non-Research</td>
<td>203</td>
<td>$78,791,263</td>
<td>253</td>
<td>$63,402,933</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>397</strong></td>
<td><strong>$125,808,880</strong></td>
<td><strong>500</strong></td>
<td><strong>$129,890,302</strong></td>
</tr>
</tbody>
</table>

Note: The detailed award listing is available at:


The FY 2022 year-to-date total was: $308,823,810.
The unofficial FY 2023 year-to-date total is: 990 awards totaling $322,567,291.
Contracts and Grants Awards
As of Quarter Second – FY 2023

Contracts and Grants Awards
Amount Awarded by Quarter

Quarterly

Millions

Quarter 1
Quarter 2
Quarter 3
Quarter 4

Cumulative

Millions

FY 2022 Quarterly Awards
FY 2023 Quarterly Awards
FY 2022 Cumulative Awards
FY 2023 Cumulative Awards
Contracts and Grants Expenditures
As of Quarter Second – FY 2023

Contracts and Grants Awards
Expenditures by Quarter

- FY 2022 Quarterly Expenditures
- FY 2023 Quarterly Expenditures
- FY 2022 Cumulative Expenditures
- FY 2023 Cumulative Expenditures
Contracts and Grants F&A Recovery
As of Quarter Second – FY 2023

Contracts and Grants Awards
F&A Recovery by Quarter

FY 2022 Quarterly F&A
FY 2023 Quarterly F&A
FY 2022 Cumulative F&A
FY 2023 Cumulative F&A
## OIC Research & Innovation Metrics  
**FY 2023 – Second Quarter Summary**

<table>
<thead>
<tr>
<th>Metric</th>
<th>FY 2022</th>
<th>FY 2023</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10/1/22 –</td>
<td>10/1/23 –</td>
</tr>
<tr>
<td></td>
<td>12/31/22</td>
<td>12/31/23</td>
</tr>
<tr>
<td>Invention Disclosures</td>
<td>34</td>
<td>9</td>
</tr>
<tr>
<td>U.S. Provisional Patents Filed</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>U.S. Non-Provisional Patents Filed</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>U.S. Non-Provisional Patents Issued</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>License &amp; Option Agreements Executed</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Active License &amp; Option Agreements</td>
<td>148</td>
<td>149</td>
</tr>
<tr>
<td>Royalty Revenue</td>
<td>$69,404.66</td>
<td>$108,473.68</td>
</tr>
<tr>
<td>Startup Support</td>
<td>8</td>
<td>11</td>
</tr>
<tr>
<td>Innovation &amp; Entrepreneurship Engagement</td>
<td>103</td>
<td>74</td>
</tr>
</tbody>
</table>
Invention Disclosures
As of Quarter Two – FY 2023
U.S. Provisional Patents Filed
As of Quarter Two – FY 2023

U.S. Provisional Patents Filed

<table>
<thead>
<tr>
<th>Quarter</th>
<th>FY 2023 Quarterly</th>
<th>FY 2022 Quarterly</th>
<th>FY 2023 Cumulative</th>
<th>FY 2022 Cumulative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q2</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q4</td>
<td></td>
<td></td>
<td></td>
<td>19</td>
</tr>
</tbody>
</table>

Cumulative
0  2  4  6  8  10  12  14  16  18  20

FY 2023 Quarterly  FY 2022 Quarterly  FY 2023 Cumulative  FY 2022 Cumulative
U.S. Non-Provisional Patents Filed
As of Quarter Two – FY 2023

U.S. Non-Provisional Patents Filed
U.S. Non-Provisional Patents Issued
As of Quarter Two – FY 2023
License/Option Agreements
As of Quarter Two – FY 2023

License/Option Agreements Executed

<table>
<thead>
<tr>
<th>Quarter</th>
<th>FY 2023 Quarterly</th>
<th>FY 2022 Quarterly</th>
<th>FY 2023 Cumulative</th>
<th>FY 2022 Cumulative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Q2</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Q3</td>
<td>4</td>
<td>3</td>
<td>7</td>
<td>5</td>
</tr>
<tr>
<td>Q4</td>
<td>3</td>
<td>2</td>
<td>6</td>
<td>4</td>
</tr>
</tbody>
</table>

Legend:
- Pink: FY 2023 Quarterly
- Grey: FY 2022 Quarterly
- Red: FY 2023 Cumulative
- Green: FY 2022 Cumulative
Royalty Revenue
As of Quarter Two – FY 2023

Royalty Revenue
FY 2023 Quarterly
FY 2022 Quarterly
FY 2023 Cumulative
FY 2022 Cumulative
Material Transfer Agreements Executed
As of Quarter Two – FY 2023

Material Transfer Agreements Executed

FY 2023 Quarterly
FY 2022 Quarterly
FY 2023 Cumulative
FY 2022 Cumulative
Confidentiality Agreements Executed
As of Quarter Two – FY 2023
<table>
<thead>
<tr>
<th>Campus</th>
<th>Award Count</th>
<th>Award Amount</th>
<th>$ Change</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaii Community College</td>
<td>8</td>
<td>3,151,526</td>
<td>2,956,090</td>
<td>(199,436)</td>
</tr>
<tr>
<td>Hawaii Community College</td>
<td>8</td>
<td>3,151,526</td>
<td>2,956,090</td>
<td>(199,436)</td>
</tr>
<tr>
<td>Kapiolani Community College</td>
<td>15</td>
<td>4,132,618</td>
<td>5,619,261</td>
<td>1,486,649</td>
</tr>
<tr>
<td>Kauai Community College</td>
<td>11</td>
<td>2,989,807</td>
<td>2,323,683</td>
<td>(666,124)</td>
</tr>
<tr>
<td>Leeward Community College</td>
<td>10</td>
<td>3,178,125</td>
<td>3,164,016</td>
<td>(14,109)</td>
</tr>
<tr>
<td>University of Hawai‘i Maui</td>
<td>37</td>
<td>12,508,433</td>
<td>5,917,944</td>
<td>(6,590,489)</td>
</tr>
<tr>
<td>Windward Community College</td>
<td>18</td>
<td>5,390,857</td>
<td>4,321,492</td>
<td>(1,069,365)</td>
</tr>
<tr>
<td>Subtotal Community Colleges and UH Maui College</td>
<td>107</td>
<td>36,482,283</td>
<td>26,181,479</td>
<td>(10,300,804)</td>
</tr>
<tr>
<td>University of Hawai‘i at Hilo</td>
<td>69</td>
<td>14,111,116</td>
<td>13,947,987</td>
<td>(163,129)</td>
</tr>
<tr>
<td>University of Hawaii at Hilo</td>
<td>713</td>
<td>218,839,850</td>
<td>205,741,792</td>
<td>(13,098,058)</td>
</tr>
<tr>
<td>University of Hawai‘i at West Oahu</td>
<td>15</td>
<td>3,550,500</td>
<td>1,655,723</td>
<td>(1,894,777)</td>
</tr>
<tr>
<td>University of Hawai‘i System</td>
<td>48</td>
<td>34,589,875</td>
<td>74,478,807</td>
<td>40,222,932</td>
</tr>
</tbody>
</table>

Grand Total: 1,092 311,061,202 990 324,495,216 13,433,414 4.3%

### FY 2023 Monthly Report of Awards to Date as of December 31, 2022

<table>
<thead>
<tr>
<th>Award Count</th>
<th>Award Amount</th>
<th>$ Change</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hawaii Community College</td>
<td>8</td>
<td>3,151,526</td>
<td>9 2,956,090</td>
</tr>
<tr>
<td>Hawaii Community College</td>
<td>8</td>
<td>3,151,526</td>
<td>9 2,956,090</td>
</tr>
<tr>
<td>Kapiolani Community College</td>
<td>15</td>
<td>4,132,618</td>
<td>11 5,619,261</td>
</tr>
<tr>
<td>Kauai Community College</td>
<td>11</td>
<td>2,989,807</td>
<td>12 2,323,683</td>
</tr>
<tr>
<td>Leeward Community College</td>
<td>10</td>
<td>3,178,125</td>
<td>12 3,164,016</td>
</tr>
<tr>
<td>University of Hawai‘i Maui</td>
<td>37</td>
<td>12,508,433</td>
<td>17 5,917,944</td>
</tr>
<tr>
<td>Windward Community College</td>
<td>18</td>
<td>5,390,857</td>
<td>18 4,321,492</td>
</tr>
<tr>
<td>Subtotal Community Colleges and UH Maui College</td>
<td>107</td>
<td>36,482,283</td>
<td>24 26,181,479</td>
</tr>
<tr>
<td>University of Hawai‘i at Hilo</td>
<td>69</td>
<td>14,111,116</td>
<td>67 13,947,987</td>
</tr>
<tr>
<td>University of Hawai‘i at Hilo</td>
<td>713</td>
<td>218,839,850</td>
<td>768 205,741,792</td>
</tr>
<tr>
<td>University of Hawai‘i at West Oahu</td>
<td>15</td>
<td>3,550,500</td>
<td>16 1,655,723</td>
</tr>
<tr>
<td>University of Hawai‘i System</td>
<td>48</td>
<td>34,589,875</td>
<td>63 74,478,807</td>
</tr>
</tbody>
</table>

Grand Total: 1,092 311,061,202 990 324,495,216 13,433,414 4.3%
<table>
<thead>
<tr>
<th>Award Amount</th>
<th>Award Count</th>
<th>Change %</th>
<th></th>
<th>Award Amount</th>
<th>Award Count</th>
<th>Change %</th>
</tr>
</thead>
<tbody>
<tr>
<td>$1,316,459</td>
<td>6</td>
<td></td>
<td>$219,792</td>
<td>3</td>
<td>103,778</td>
<td>7.9%</td>
</tr>
<tr>
<td>3,150,375</td>
<td>2</td>
<td></td>
<td>$158,049</td>
<td>2</td>
<td>116,666</td>
<td>269.4%</td>
</tr>
<tr>
<td>90,000</td>
<td>1</td>
<td></td>
<td>$(72,750)</td>
<td>1</td>
<td>$(313,500)</td>
<td>333.3%</td>
</tr>
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<td>92</td>
<td>$(2,649,907)</td>
<td>-6.4%</td>
</tr>
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<td>$(556,000)</td>
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</tr>
<tr>
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</tr>
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<td></td>
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<td>$(481,102)</td>
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</tr>
<tr>
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</tr>
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</tr>
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<tr>
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<td>-27.1%</td>
</tr>
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</tr>
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<td>5</td>
<td>$(847,550)</td>
<td>-27.1%</td>
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<td>$(847,550)</td>
<td>5</td>
<td>$(847,550)</td>
<td>-27.1%</td>
</tr>
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<td>$(847,550)</td>
<td>5</td>
<td>$(847,550)</td>
<td>-27.1%</td>
</tr>
<tr>
<td>837,942</td>
<td>13</td>
<td></td>
<td>$(847,550)</td>
<td>5</td>
<td>$(847,550)</td>
<td>-27.1%</td>
</tr>
<tr>
<td>837,942</td>
<td>13</td>
<td></td>
<td>$(847,550)</td>
<td>5</td>
<td>$(847,550)</td>
<td>-27.1%</td>
</tr>
<tr>
<td>837,942</td>
<td>13</td>
<td></td>
<td>$(847,550)</td>
<td>5</td>
<td>$(847,550)</td>
<td>-27.1%</td>
</tr>
<tr>
<td>837,942</td>
<td>13</td>
<td></td>
<td>$(847,550)</td>
<td>5</td>
<td>$(847,550)</td>
<td>-27.1%</td>
</tr>
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<td>837,942</td>
<td>13</td>
<td></td>
<td>$(847,550)</td>
<td>5</td>
<td>$(847,550)</td>
<td>-27.1%</td>
</tr>
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<td>837,942</td>
<td>13</td>
<td></td>
<td>$(847,550)</td>
<td>5</td>
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<td>-27.1%</td>
</tr>
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<td>837,942</td>
<td>13</td>
<td></td>
<td>$(847,550)</td>
<td>5</td>
<td>$(847,550)</td>
<td>-27.1%</td>
</tr>
<tr>
<td>837,942</td>
<td>13</td>
<td></td>
<td>$(847,550)</td>
<td>5</td>
<td>$(847,550)</td>
<td>-27.1%</td>
</tr>
<tr>
<td>837,942</td>
<td>13</td>
<td></td>
<td>$(847,550)</td>
<td>5</td>
<td>$(847,550)</td>
<td>-27.1%</td>
</tr>
<tr>
<td>837,942</td>
<td>13</td>
<td></td>
<td>$(847,550)</td>
<td>5</td>
<td>$(847,550)</td>
<td>-27.1%</td>
</tr>
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<td>837,942</td>
<td>13</td>
<td></td>
<td>$(847,550)</td>
<td>5</td>
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<td>-27.1%</td>
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<tr>
<td>837,942</td>
<td>13</td>
<td></td>
<td>$(847,550)</td>
<td>5</td>
<td>$(847,550)</td>
<td>-27.1%</td>
</tr>
<tr>
<td>Campus</td>
<td>FY 2022 Award Count</td>
<td>FY 2022 Award Amount</td>
<td>FY 2021 Award Count</td>
<td>FY 2021 Award Amount</td>
<td>$ Change</td>
<td>% Change</td>
</tr>
<tr>
<td>--------</td>
<td>---------------------</td>
<td>----------------------</td>
<td>---------------------</td>
<td>----------------------</td>
<td>---------</td>
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</tr>
<tr>
<td>Office of the Provost</td>
<td>3</td>
<td>98,011</td>
<td>5</td>
<td>433,178</td>
<td>335,167</td>
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<tr>
<td>Outreach College</td>
<td>-</td>
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<td>3</td>
<td>22,183</td>
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<tr>
<td>School of Agriculture</td>
<td>1</td>
<td>179,585</td>
<td>-</td>
<td>-</td>
<td>162,549</td>
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<tr>
<td>School of Ocean and Earth Science and Technology</td>
<td>213</td>
<td>53,992,987</td>
<td>195</td>
<td>51,929,837</td>
<td>163,950</td>
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<tr>
<td>University of Hawaii Cancer Center</td>
<td>43</td>
<td>11,067,259</td>
<td>14</td>
<td>24,276,760</td>
<td>-13,209,501</td>
<td>-54.7%</td>
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<tr>
<td>Cancer Etiology (Tumor Biology)</td>
<td>21</td>
<td>8,353,242</td>
<td>21</td>
<td>7,205,657</td>
<td>1,147,585</td>
<td>16.0%</td>
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<tr>
<td>Natural Products (Cancer Biology)</td>
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<td>1,720,887</td>
<td>8</td>
<td>1,857,023</td>
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</tr>
<tr>
<td>Natural and Behavioral Sciences (Cancer Prevention in the Pacific)</td>
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<td>728,866</td>
<td>6</td>
<td>769,910</td>
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<tr>
<td>Translational and Clinical Research</td>
<td>1</td>
<td>1,819,039</td>
<td>2</td>
<td>1,261,528</td>
<td>557,511</td>
<td>44.3%</td>
</tr>
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<td>7</td>
<td>1,460,914</td>
<td>7</td>
<td>1,422,202</td>
<td>38,712</td>
<td>2.7%</td>
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<td>University of Hawaii Cancer Center, Excellence</td>
<td>16</td>
<td>1,936,609</td>
<td>15</td>
<td>1,842,485</td>
<td>94,124</td>
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<td>Graduate Education</td>
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<td>1,122,389</td>
<td>3</td>
<td>1,345,827</td>
<td>-223,438</td>
<td>-16.6%</td>
</tr>
<tr>
<td>Library (UH Manoa)</td>
<td>4</td>
<td>163,846</td>
<td>3</td>
<td>77,040</td>
<td>86,806</td>
<td>114.2%</td>
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<tr>
<td>Undergraduate Education</td>
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<td>186,714</td>
<td>-</td>
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<td>186,714</td>
<td>100.0%</td>
</tr>
<tr>
<td>Vice Provost, Academic Excellence</td>
<td>5</td>
<td>85,582</td>
<td>1</td>
<td>29,958</td>
<td>55,624</td>
<td>186.7%</td>
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<tr>
<td>Vice Chancellor, Admin, Finance and Operations</td>
<td>1</td>
<td>124,000</td>
<td>-</td>
<td>-</td>
<td>(124,000)</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Water Resources Research Center</td>
<td>8</td>
<td>3,665,709</td>
<td>7</td>
<td>2,408,255</td>
<td>1,257,454</td>
<td>52.3%</td>
</tr>
<tr>
<td>Health &amp; Wellness to University Health Services</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5,970</td>
<td>100.0%</td>
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<tr>
<td>Student Academic Support</td>
<td>-</td>
<td>-</td>
<td>5</td>
<td>957,794</td>
<td>957,794</td>
<td>0.0%</td>
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<tr>
<td>Division of Student &amp; Diversity</td>
<td>8</td>
<td>3,665,709</td>
<td>7</td>
<td>2,408,255</td>
<td>1,257,454</td>
<td>52.3%</td>
</tr>
<tr>
<td>Vice Provost, Student Success</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>1,092,074</td>
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</tr>
<tr>
<td>Women's Center</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>65,500</td>
<td>65,500</td>
<td>0.0%</td>
</tr>
<tr>
<td>Water Resources Research Center</td>
<td>7</td>
<td>2,736,782</td>
<td>8</td>
<td>2,575,219</td>
<td>161,563</td>
<td>6.2%</td>
</tr>
<tr>
<td>Water Resources Research Center</td>
<td>7</td>
<td>2,736,782</td>
<td>8</td>
<td>2,575,219</td>
<td>161,563</td>
<td>6.2%</td>
</tr>
<tr>
<td>William S. Richardson School of Law</td>
<td>15</td>
<td>2,152,427</td>
<td>8</td>
<td>438,631</td>
<td>(1,713,796)</td>
<td>-400.0%</td>
</tr>
<tr>
<td>William S. Richardson School of Law</td>
<td>15</td>
<td>2,152,427</td>
<td>8</td>
<td>438,631</td>
<td>(1,713,796)</td>
<td>-400.0%</td>
</tr>
<tr>
<td>University of Hawaii at West Oahu</td>
<td>15</td>
<td>5,509,109</td>
<td>10</td>
<td>3,844,357</td>
<td>(1,664,752)</td>
<td>-43.6%</td>
</tr>
<tr>
<td>University of Hawaii at West Oahu</td>
<td>15</td>
<td>5,509,109</td>
<td>10</td>
<td>3,844,357</td>
<td>(1,664,752)</td>
<td>-43.6%</td>
</tr>
<tr>
<td>Chancellor, UH West Oahu</td>
<td>5</td>
<td>3,173,778</td>
<td>5</td>
<td>2,872,392</td>
<td>301,386</td>
<td>10.5%</td>
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<tr>
<td>Division of Administration</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>220,873</td>
<td>(220,873)</td>
<td>-100.0%</td>
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<tr>
<td>Division of Mathematics, Natural and Health Sciences</td>
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<td>799,883</td>
<td>-</td>
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<tr>
<td>Division of Public Administration</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>9,230</td>
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<td>100.0%</td>
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<tr>
<td>‘Uluʻula Library Archives</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>365,304</td>
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<td>100.0%</td>
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<td>Vice Chancellor for Student Affairs</td>
<td>3</td>
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<td>1</td>
<td>600,000</td>
<td>480,000</td>
<td>80.0%</td>
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<tr>
<td>University of Hawaii at Hilo Campus</td>
<td>37</td>
<td>12,508,433</td>
<td>17</td>
<td>5,907,947</td>
<td>(6,600,486)</td>
<td>-111.6%</td>
</tr>
<tr>
<td>University of Hawaii at Hilo Campus</td>
<td>37</td>
<td>12,508,433</td>
<td>17</td>
<td>5,907,947</td>
<td>(6,600,486)</td>
<td>-111.6%</td>
</tr>
<tr>
<td>Chancellor, UH Hilo Campus</td>
<td>37</td>
<td>12,508,433</td>
<td>17</td>
<td>5,907,947</td>
<td>(6,600,486)</td>
<td>-111.6%</td>
</tr>
<tr>
<td>Science, Technology, Engineering and Mathematics Department</td>
<td>1</td>
<td>199,513</td>
<td>-</td>
<td>-</td>
<td>(599,398)</td>
<td>-100.0%</td>
</tr>
<tr>
<td>University of Hawaii Center, Maui</td>
<td>2</td>
<td>150,000</td>
<td>-</td>
<td>-</td>
<td>(150,000)</td>
<td>-100.0%</td>
</tr>
<tr>
<td>University of Hawaii at System</td>
<td>48</td>
<td>34,278,525</td>
<td>63</td>
<td>74,478,807</td>
<td>(40,200,282)</td>
<td>-53.9%</td>
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<tr>
<td>Office of the Provost for Academic Strategy</td>
<td>7</td>
<td>3,457,510</td>
<td>7</td>
<td>11,442,739</td>
<td>(7,985,229)</td>
<td>-69.8%</td>
</tr>
<tr>
<td>Hawaii IP/20 Partnerships for Education Office</td>
<td>7</td>
<td>4,547,550</td>
<td>9</td>
<td>11,442,739</td>
<td>(6,895,189)</td>
<td>-59.3%</td>
</tr>
<tr>
<td>Office of the Vice President for Administration</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>205,000</td>
<td>205,000</td>
<td>100.0%</td>
</tr>
<tr>
<td>Department of Public Health</td>
<td>2</td>
<td>109,000</td>
<td>1</td>
<td>109,000</td>
<td>109,000</td>
<td>100.0%</td>
</tr>
<tr>
<td>Office of Community Services</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>75,000</td>
<td>75,000</td>
<td>100.0%</td>
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<tr>
<td>Office of the Vice President for Community Colleges</td>
<td>6</td>
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<td>14,618,391</td>
<td>(6,312,095)</td>
<td>-42.6%</td>
</tr>
<tr>
<td>Office of the Vice President for Information Technology</td>
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<td>13,105,732</td>
<td>(9,010,465)</td>
<td>-68.8%</td>
</tr>
<tr>
<td>Office of the Vice President for Institutional Research and Innovation</td>
<td>24</td>
<td>21,740,406</td>
<td>28</td>
<td>34,109,527</td>
<td>(12,369,121)</td>
<td>-36.5%</td>
</tr>
<tr>
<td>Applied Research Laboratory</td>
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<td>11,571,084</td>
<td>10</td>
<td>17,927,617</td>
<td>(6,356,533)</td>
<td>-35.4%</td>
</tr>
<tr>
<td>Office of the Vice President for Research and Innovation</td>
<td>8</td>
<td>10,169,322</td>
<td>9</td>
<td>16,481,710</td>
<td>(6,312,388)</td>
<td>-38.3%</td>
</tr>
<tr>
<td>President, University of Hawaii System</td>
<td>7</td>
<td>3,943,813</td>
<td>7</td>
<td>3,943,813</td>
<td>0.0%</td>
<td></td>
</tr>
<tr>
<td>President, University of Hawaii System</td>
<td>7</td>
<td>3,943,813</td>
<td>7</td>
<td>3,943,813</td>
<td>0.0%</td>
<td></td>
</tr>
<tr>
<td>VP For Administration</td>
<td>1</td>
<td>69,006</td>
<td>-</td>
<td>-</td>
<td>69,006</td>
<td>100.0%</td>
</tr>
<tr>
<td>VP For Administration</td>
<td>1</td>
<td>69,006</td>
<td>-</td>
<td>-</td>
<td>69,006</td>
<td>100.0%</td>
</tr>
<tr>
<td>Windward Community College</td>
<td>18</td>
<td>9,390,857</td>
<td>14</td>
<td>4,321,892</td>
<td>(5,068,965)</td>
<td>-119.8%</td>
</tr>
<tr>
<td>Campus</td>
<td>FY 2022 Award Count</td>
<td>FY 2022 Award Amount</td>
<td>FY 2023 Award Count</td>
<td>FY 2023 Award Amount</td>
<td>$ Change</td>
<td>% Change</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>---------------------</td>
<td>----------------------</td>
<td>---------------------</td>
<td>----------------------</td>
<td>--------------</td>
<td>----------</td>
</tr>
<tr>
<td>Chancellor, Windward Community College</td>
<td>18</td>
<td>9,390,857</td>
<td>14</td>
<td>4,221,892</td>
<td>(5,168,965)</td>
<td>-54.2%</td>
</tr>
<tr>
<td>Academic Affairs (Windward CC)</td>
<td>1</td>
<td>883,221</td>
<td>-</td>
<td>-</td>
<td>(883,221)</td>
<td>-100.0%</td>
</tr>
<tr>
<td>Chancellor, Windward Community College</td>
<td>17</td>
<td>8,507,636</td>
<td>12</td>
<td>4,264,892</td>
<td>(4,242,744)</td>
<td>-49.9%</td>
</tr>
<tr>
<td>Continuing and Community Education</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>57,000</td>
<td>57,000</td>
<td>100.0%</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td>1,092</td>
<td>311,061,802</td>
<td>995</td>
<td>324,495,216</td>
<td>13,433,414</td>
<td>4.3%</td>
</tr>
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