Extramural grants received by the University of Hawaii and other research institutions generally contain overhead funds to reimburse institutions for the costs associated with research activity (utilities, renovations, data bases, scholarly journals, compliance with state and federal regulations, faculty start-up packages, administrative staff and laboratory technicians). These are general funds returned by the state to the University of Hawai‘i, at the system level, to make research possible. The returned funds are called RTRF (Research, Training, and Revolving Funds) at UH, and are used to support research throughout the system.

The UH system receives 25% of the RTRF and 75% flows to the institution where the funds were generated. The UH System uses its share of RTRF to fund pre-award functions via ORS and MyGrant. General post-award accounting at UH Hilo (Paula Gealon’s office) is also funded by the UH System. RTRF Funds allocated to UH Hilo are generally placed in an RCUH account (Research Corporation of the University of Hawaii) and are distributed by the Chancellor through the Vice Chancellor of Academic Affairs (VCAA), in consultation with the Research Council. The VCAA has responsibility for research at UH Hilo but has delegated significant administrative oversight to Dr. Bruce Mathews, Dean of CAFNRM. More information about Research Administration can be found at: [http://hilo.hawaii.edu/research](http://hilo.hawaii.edu/research).

The amount of RTRF generated by sponsored grant activity over the past 7 years is shown in the graph below.

Please note that RTRF comes to the UH Hilo Office of Research the year after grant funds are expended by Principal Investigators, not at the time of the original award. UH
Hilo generated $3,011,741 of overhead in FY2016 of which $865,876 went to the UH System for support. The total new revenue was $2,145,865. Note in FY2016 there was an additional one-time system withholding across all campuses of 5% to fund Mauna Kea related cultural and historical programming. Carry forward and contingencies from the previous fiscal year were $390,000. UH Hilo also received an additional $100,000 from the system to support Faculty Research. This left $2,635,865 under UH Hilo control in FY16.

2015 RTRF was distributed in the following manner:

**VC Administrative Affairs** $377,778
These funds are used to offset the basic costs of research space on campus such as electricity, air-conditioning, maintenance, and minor remodeling (keep in mind that electricity is the single highest non-salary cost at UHH).

**Research Council** $220,000
The UH Research Council uses RTRF to fund Travel Grants, research Seed Money Grants, and Research Relations Grants for faculty and staff. Funding has also been provided for Grant Development Programs and Grant Workshops in the past. The Research Council also serves as the faculty/staff advisory committee for matters pertaining to research, institutional grant submissions, and distribution of RTRF funds. In 2016, the Research Council expended $85,000 on 40 travel grants, $108,000 on 9 Seed Grants, and $17,000 on 4 Research Relations Grants for a total of $148,000. The remaining $72,000 was carried over to the next fiscal year to help offset future deficits after a small amount was used for RCUH fees. See:
http://hilo.hawaii.edu/research/researchcouncil.php
http://hilo.hawaii.edu/research/SeedMoneyGrants.php
http://hilo.hawaii.edu/research/ResearchRelationsFund.php

**Principal Investigators (PI)** $52,813
A portion of RTRF is returned directly to grant PI to either use on current research projects or to fund new research investigations.

**Deans** $43,240
A portion of the RTRF generated by faculty and staff within their unit is also returned directly to the deans. These funds can be used for research-related projects at the discretion of the deans. Some examples are support for research equipment, to provide
start-up funding for new researchers, or to provide bridge funding for researchers between grants.

**Departments** $21,610  
A portion of the RTRF generated by faculty and staff within their unit is also returned directly to the departments. These funds can be used for research-related purposes similar to the deans or in ways the individual departments feel best supports their research efforts.

**Chancellor** $171,803  
The Chancellor receives RTRF as PI of institutional grants and uses this funding to support existing research or create innovative new programs to spur new research venues at UH Hilo.

**Library** $198,055  
RTRF funding has been provided to the library to help offset the costs of research-related journal subscriptions, data bases and book purchases. In FY2015, RTRF supported subscriptions for a number of the library’s research-related electronic resources, including Web of Science, PsycINFO, Aquatic Sciences & Fisheries Abstracts and large ejournal sets from JSTOR Arts & Sciences, SagePremier and SpringerLink. [http://guides.library.uhh.hawaii.edu/content.php?pid=316144&sid=5640599](http://guides.library.uhh.hawaii.edu/content.php?pid=316144&sid=5640599)

**Research Labs (TCBES supported)** $308,033  
*The UHH Core Genomics facility* promotes research and assists faculty, undergraduate and graduate students, and US Federal and State of Hawaii agencies by offering genomics technical training sessions and access to a wide variety of equipment, and by providing laboratory support to researchers doing preliminary research to help with grant applications. Support also includes DNA sequencing and genotyping (Sanger), and next generation sequencing services for a fee.  
*The UH Hilo Analytical Laboratory* supports ecological research and water quality studies. The lab provides analytical services (nutrients, organic carbon, nitrogen, stable isotopes, and elemental analyses) for researchers throughout the University of Hawaii System as well as Federal and state agency research projects in the State of Hawaii. [Core Genomics Facility](http://hilo.hawaii.edu/depts/epscor/)  
[Analytical Laboratory](http://hilo.hawaii.edu/~analab/)

**Pharmacy Research and Lab Support** $214,875  
Support for research laboratories and laboratory managers to maintain research equipment and infrastructure. Some funds were also used to directly foster research to support grant applications.
System Support for Faculty Research $87,300
The University of Hawaii Vice President of Research Vassilis Syrmos provided RTRF funds to support faculty actively writing research grants and mentoring graduate students in research learning experiences. Grants were awarded by VCAA Matt Platz in response to nominations by graduate program directors. Ten faculty received course releases in calendar 2016, although some were deferred to 2017. See: https://hilo.hawaii.edu/research/CourseReleases.php
Note $12,700 spent in FY15

Energy Science Laboratory $100,000
Funding was supplied to the CAFNRM to start up an energy science laboratory.

PACRC $43,749
Funding was provided to UHH’s Pacific Aquaculture and Coastal Research Center (PACRC) to maintain infrastructure to prevent fish fatalities. The improvements were critical and necessary for UH Hilo to remained certified to conduct animal research.

Research & Community Partnerships $398,031
The university utilizes this office to focus efforts closely tied to the collaboration, diversity and community goals of UH Hilo’s strategic plan. RTRF supported staff in two areas: 1) Staff to work with faculty, student groups, and community groups, to coordinate university engagement in community `aina-based efforts., including developing `āina-based service-learning opportunities for faculty and student groups with local schools, coordinating the Hawaii Island Science Olympiad for island middle and high school students, and linking high school students to the university through summer programming, and 2) Staff to coordinate UHH’s participation in the Hawai‘i Cooperative Studies Unit (HCSU), the UH component of the Pacific Island Climate Science Center, the Hawaii‘i Conservation Alliance, the Pacific Island Climate Change Cooperative, the USGS Hawaii Fishery Cooperative Research Unit and the Hawai‘i-Pacific Islands Cooperative Ecosystems Studies Unit (HPI CESU). RTRF generated from those partnerships covered 60% of staffing. The FY16 funding amount included funding to sustain operations for 4 months into FY17.

Sea Grant Support $46,772
RTRF support was used to collaborate with a network of communities on Hawaii Island and throughout the state that live sustainably, that support best practices in coastal resource use and management, and to build leadership in these areas for future generations.
Biostatistician Support $40,936
Part-time senior biostatistician to teach PharmD and PhD students biostatistics courses in the College of Pharmacy, and to support and grow the research enterprise through faculty mentorship and collaborations on research grants and publications.

PI Support $206,572
The PI Support team assists with overall grant management and initiating procurement, personnel and travel transactions on behalf of PIs. Support is provided for single investigators who receive smaller extramural grants without administrative support, RTRF returned to PIs, Deans, Dept. Chairs, and PIs, as well as the Research Council’s grant programs.


Fiscal Support $67,342
Costs to provide Fiscal Support to Analytical/Core Genomics Laboratories and Conference Center.

Proposal Development $27,018
OR personnel assist PIs with a variety of services including editing proposals for readability and responsiveness to the RFP, offering help with developing and modifying budgets and their accompanying justifications, initiating proposals in the UH Hilo-internal myGRANT system (including the Intent to Apply form), and assisting with uploads to both Grants.gov and NSF FastLane. OR personnel work with PIs and their co-PIs to ensure such elements as BioSketches, Data Management Plans, Post-Doc Mentoring Plans, and other required elements of proposals are compliant, and that the Project Summary and Description are included and properly worded.

Research Office Administration/Contingency $9,938
A small fund held in reserve to help deal with unexpected research-related costs.

TOTAL RTRF DISTRIBUTED FY 2016 $2,635,865