

Thirty Meter Telescope's THINK Fund & Workforce Pipeline Program

The Hawai'i Island New Knowledge (THINK) Fund was initiated in 2014 prior to the initial start of TMT construction with a commitment of \$1 million per year for Hawai'i Island STEM endeavors. The Hawai'i Community Foundation (HCF) and the Pauahi Foundation administer the THINK Fund with scholarship, classroom, student and STEM programming initiatives with Pauahi focusing on Native Hawaiians recipients.

To date, TMT has funded **\$5,130,924.85** to the THINK Fund initiative (THINK Fund at HCF \$3,848,193.64 and THINK Fund at Pauahi Foundation \$1,282,731.21) for Hawai'i Island students, their families and teachers.

TMT's Workforce Pipeline Program has dispersed an additional **\$2,500,000** to Hawai'i Island programs.

In total, TMT's THINK Fund initiative and Workforce Pipeline Program have funded over \$7.6 million to Hawai'i Island students, teachers and programs since 2014.

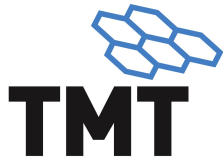
THINK Fund at HCF has benefitted 26,000 students and 1,000 teachers on Hawai'i Island. Grants and scholarships seek to provide high-quality, career-connected STEM education and experiences to Hawai'i Island's most underserved youth.

Scholarships

- College scholarships totaling over \$325,000 have been awarded to 83 Hawai'i Island students with financial need.
- Scholarships support students pursuing careers in STEM and future STEM educators who intend to teach in Hawai'i Island schools.

STEM Learning Grants

- THINK Fund at HCF provided more than \$985,000 in grants that leveraged an additional \$1,500,000 from other funders to support innovative STEM programs and activities.
- Programs receiving support must demonstrate success recruiting and addressing the needs of groups underrepresented in STEM fields, which includes students in rural communities, Native Hawaiians, and those disengaged in school. (See attached for full list.)



THIRTY METER TELESCOPE

100 West Walnut Street
Suite 300
Pasadena, California 91124

T 1 626.395.1600
F 1 626.296-1887
www.tmt.org

Classroom Grants through DonorsChoose.org

- \$250,000 has been committed to providing immediate funding for high-quality, ready-to-go STEM projects in Hawai'i Island classrooms.
- High need schools received 78% of the funding.
- 39 out of 55 public and public charter schools on Hawai'i Island have received grants, schools with high need students received 78% of the funding. (See attached for full list of schools.)

Career Connected Learning Program (formerly called STEM Learning Grants)

- Launched in January 2018; in its first year, 33 grants were awarded
- Provides grants for in-school and after-school activities for students, teacher professional development or work-based learning programs. (See attached for 2018 list.)

Program for Children of Incarcerated Parents

- Hawaii Community Foundation will solicit proposals to fund programs serving this target group for at least \$5,000 per year, beginning this year.

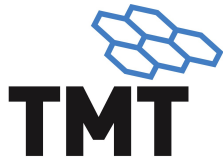
THINK Fund at Pauahi Foundation

- To date TMT has provided **\$1,282,731.21** to the THINK Fund at Pauahi Foundation.
- TMT's THINK Fund at Pauahi has funded thirty-four scholarships to date, with all students funded for their entire academic careers.
- Twenty-eight students had full scholarships to Science Camps; total of \$67,060.
- All students are Native Hawaiian.

TMT's Workforce Pipeline Program

Through the TMT-funded and managed Workforce Pipeline Program, more than \$2,500,000 has been disbursed to Hawaii Island. Among the key programs that have been supported are:

- Akamai Workforce Initiative – TMT is the cornerstone funder of internship program that has provided internships to 390 students from Hawaii. 24% have been Native Hawaiian and 47% underrepresented minorities. At least 140 alumni are now working in science and technology jobs, with nearly two-thirds of them working in Hawaii and contributing to the local STEM workforce. In 2018, TMT supported 10 additional college interns from Hawaii Island. To date TMT has provided over \$1.3 million.
- TMT has also funded an Akamai Mentor Training Program for three years.
- TMT has funded high school, middle school, and elementary school robotics for seven years, with funding in excess of \$250,000. The funding has made it possible for schools and communities throughout Hawai'i Island, including many with underserved/underrepresented students to participate in robotics.



THIRTY METER TELESCOPE

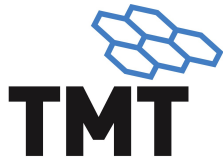
100 West Walnut Street
Suite 300
Pasadena, California 91124

T 1 626.395.1600
F 1 626.296-1887
www.tmt.org

- TMT has also been a major sponsor of the Girls Engaged in Math and Science Program (GEMS), Hawai'i County and State Science Fairs, Journey through the Universe, and other similar programs, including many at the 'Imiloa Astronomy Center.
- In 2018 TMT funded a new TMT UH Hilo Physics and Astronomy computer laboratory, and was the major funder of the UH Hilo 2018 Science Olympiad.
- TMT sponsored Camp Laniakea in 2018 to allow children in the Puna Emergency Shelters affected by the Kilauea eruption to learn, dream, play and explore STEM. Camp Laniakea enrolled approximately 30 students in grades K-12 who resided in the Puna shelter to experience enriching STEM educational experiences during weekends in August and September (a total of 8 days). TMT invested \$30,000 in this program.
- TMT participates in numerous community events, such as Astroday in Hilo and Kona, Astronaut Ellison Onizuka Day, Journey to the Universe, science days at various schools and the Institute for Astronomy's Annual Open House.

**THINK FUND AT HCF
STEM LEARNING PARTNERSHIP GRANTS 2015-2018**

- Boys and Girls Club of the Big Island
 - Akeakamai Aloha Aina
 - Summer STEM for Life
- Chiefess Kapiolani Elementary School – Journey Through Time: 100 Years Past and Present
- Community-Based Education Support Services Friends of Connections School – Integrating STEM Education Through Project-Based Learning
- Friends of Hakalau Forest National Wildlife Refuge – Teaching Change
- Friends of the Future – Earl's Garage
- Girl Scouts of Hawai'i – STEM Program
- Hawaii Institute of Pacific Agriculture – School to Farm STEM Field Trips
- Hawaii Outdoors Institute – Summer to Sea Environmental Science Course – Hawaii Kuleana Award
- Hawai'i Preparatory Academy – Hawaii Island STEM Summer Learning Partnership
- Hawaii Science and Technology Museum – SpartanWORKS: Establishing a Hawaii STEM Network for the Hilo Community
- Hilo Intermediate School – Frameworks for STEM Success!
- Hilo Medical Center Foundation – Create and Navigate Opportunities in Education (CANOE) STEM Program
- Holualoa Elementary School – Expand and Integrate STEM
- Honaunau Elementary School – Garden for STEM Learning
- Honoka'a Complex, Kamuela, Hawaii
 - Innovation Lab
 - STEM Partnership
 - STEM Phantom Pilots
 - TechnoTrailer
- Kahua Pa'a Mua, Inc. – Understanding Microbial Importance in Soils (UMIS)

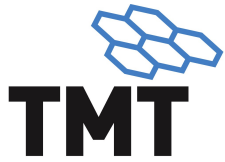


THIRTY METER TELESCOPE

100 West Walnut Street
Suite 300
Pasadena, California 91124

T 1 626.395.1600
F 1 626.296-1887
www.tmt.org

- Kalanihale – STEM ALOHA in South Kona Hawaii: Advancing Learning in STEM
- Kanu o ka ‘Aina Learning Ohana
 - Malama Kipuka-Taking Care of a Culturally Sacred Place Through Science Exploration
 - Malamapokii Outdoor STEM Learning Laboratory
- Ke Kula ‘o Nawahiokalani opu‘u – Ko Kula Kai
- Kea‘au Elementary School – Robotics Inspire Program
- Kealakehe High School
 - Creating STEM Career Pathway in West Hawai‘i
 - Expanding STEM Education within the West Hawaii Community Through Kealakehe STEM Programs
- Keaukaha One Youth Development – RISE 21st Century After School Program
- Laupahoehoe Community Public Charter School
 - ‘Imi Na‘auWOW: LCPCS’s bridge between local and global
 - Project-Based Learning and 21st Century Skills
- Marine Mammal Center – Na Kokua o Ke Kai: Advancing Middle-School Marine Science and Ocean Conservation
- North Kohala Community Resource Center – Kohala Robotics
- Pa‘a Pono Miloli‘i – ‘Imiloa O Miloli‘i (Miloli‘i “Seekers of Knowledge”)
- Success Factory – Building student skill and confidence to thrive in STEM careers
- Teach for America – Hawai‘i Island STEM Teacher Programming, Development and Support
- The Kohala Center
 - Environmental Education Program
 - KWPeeps: Kohala Watershed Partnership environmental education programs
 - STEM in the Natural World: Cultural and Scientific Pathways to the Careers of Tomorrow
- University of Hawaii – Office of Research Services
 - Big island Invasive Species Committee: Building teacher capacity in hands-on, inquiry-based science using existing Hawaii-based curricula
 - Professional Development for Creating Competent, Place-Based, Inquiry-Driven Instruction
- University of Hawaii Foundation
 - ‘Imiloa Astronomy Center of Hawaii: Mobile Science Outreach on Hawaii Island
 - Hawaii CC Summer STEM Academy Scholarships
 - MANU ‘Imiloa: the Geometry of Wayfinding
 - Mini-MERIT and MADE Programs – a partnership between CCECS and KCI
 - PRIME (Professional Resources Inspiring Motivated Educators)
 - The Inspiration Imagination Innovation Projects
 - THINK Big Island VEX Robotics League
- Waiakea High School – WHS Robotics
- Waiakea Intermediate School – WCS Coding and Programming Initiative
- Waimea Elementary School – 1 to 1 Student Computer Program
- West Hawai‘i Explorations Academy Public Charter School – WHEA Robotics
- Zoological Society of San Diego – Alala Reintroduction Community Inquiry Program



THIRTY METER TELESCOPE

100 West Walnut Street
Suite 300
Pasadena, California 91124

T 1 626.395.1600
F 1 626.296-1887
www.tmt.org

**THINK FUND AT HCF
CLASSROOM GRANTS 2015-2018**

- Connections New Century Public Charter School
- Ernest Bowen DeSilva Elementary School
- Hilo High School
- Hilo Intermediate School
- Hilo Union Elementary School
- Honoka'a High & Intermediate School
- Ho'okena Elementary School
- Innovations Public Charter School
- Ka 'Umeke Ka'eo Public Charter School
- Kahakai Elementary School
- Kanu O Ka 'Aina New Century Public Charter School
- Ka'u High & Pahala Elementary School
- Ke Kula O 'Ehunuikaimalino School
- Kea'au High School
- Kea'au Middle School
- Kealakehe Elementary School
- Kealakehe High School
- Kealakehe Intermediate School
- Keonepoko Elementary School
- Kohala Elementary School
- Kohala High School
- Kona Pacific Public Charter School
- Konawaena Elementary School
- Konawaena High School
- Konawaena Middle School
- Kula O Ka La Public Charter School
- Laupahoehoe Community Public Charter School
- Na'alehu Elementary School
- Pa'auilo Elementary & Intermediate School
- Pahoa Elementary School
- Prince Jonah Kalaniana'ole Elementary & Intermediate School
- Volcano School of Arts & Science Public Charter School
- Waiakea Elementary School
- Waiakea High School
- Waiakea Intermediate School
- Waikoloa Elementary & Middle School
- Waimea Elementary School
- Waters of Life Public Charter School
- West Hawaii Explorations Academy

**THINK FUND AT HCF
CAREER CONNECTED LEARNING GRANTS 2018**

- Akaka Foundation for Tropical Forests – Teaching Change: Increasing youth participation in conservation related STEM fields in Hawaii
- Canada-France-Hawaii Telescope Corporation – Maunakea Scholars Expansion with Manoa Academy
- Friends of the Future – Hokupa’a Purpose-Driven Career Pathways
- Girl Scouts of Hawai’i – Hawaii Island and Kauai STEM Fests and the Girl Scouts Leadership Experience
- Hawaii Academy of Arts & Science Public Charter School – STEM Learning
- Hawaii Institute of Pacific Agriculture – Farm Mentorship & Apprenticeship
- Hawaii Pacific University – Citizen Science Program Using eDNA
- Hawai’i Preparatory Academy – HPA’s Career Connected STEM
- Hilo Medical Center Foundation – Pre-Health Career Corps Program
- Holualoa Elementary School – Holualoa C2C Food Sustainability Project
- Honoka’a Complex, Kamuela – STEM Partnership: STEM Career Connected Learning Program
- Kahua Pa’a Mua, Inc. – KPM Ag STEM Connection
- Ke Kula ‘o Nawahiokalani opu’u – Ko Kula Kai
- Kealakehe High School – Expanding Excellent STEM Access in West Hawaii
- Keaukaha One Youth Development – RISE 21st Century After School Program
- Kea’au Elementary School – Kea’au Robotics Inspire
- Keonepoko Elementary School – KeOBots
- Mala’ai – The Culinary Garden of Waimea Middle School – STEM Learning in the Garden
- Marine Mammal Center – Na Kokua o Ke Kai: Advancing Middle-School Marine Science and Ocean Conservation
- Parker School – Expansion of Parker School’s Technology Education Plan
- Prince Dance Company – Rhythm of the Universe
- Regents of the University of California, Santa Cruz – Hawaii Island Akamai Internships
- Success Factory – The Success Factory’s NexTech STEM Programs
- The Kohala Center – Ke Kumu ‘Aina: Watershed Field Investigations
- University of Hawaii, Hilo – Real-world Studies and Student Empowerment Can Improve Access to STEM Career Pathways
- University of Hawaii Foundation
 - Pushing Health Professional Students Past the Chemistry Barrier
 - FEST (Families Exploring Science Together)
 - KCI Professional Development and Training
- Waikoloa Dry Forest Initiative – Future Foresters
- Waimea Elementary School – Install widescreen smartboards in classroom to facilitate schoolwide exploration of career options
- Waimea Middle Public Conversion Charter School - #STEAMTeam
- Zoological Society of San Diego – Alala Reintroduction Community Inquiry Program

2-27-19