# HSSEF 2020 SCHOLARSHIP AWARDS

**NOAA SR Division Scholarship Winners:**

Scholarship Award, $2,000
Project #172, Micah Wilweber, Kalaheo High School
Title: Forecasting Short Term Rain Events Using Data from a Personal Weather Station (PWS)

Scholarship Award, $2,000
Project #165, Mariko Quinn, Castle High School
Title: To Tree or Not To Tree: Tracking Survival and Growth of Pocillopora acuta Spat on Coral Restoration Trees vs. Direct Reef Placement

**NOAA SR Division Honorable Mention:**

Honorable Mention, $1,000
Project #206, Joshua Parker, Kamehameha Schools, Kapalama
Title: Developing and Analyzing Hydropower Generators in Fishpond Mākāhā

Honorable Mention, $500
Project #151, Leigh Berry, Mililani High School
Title: The Effect of Retrofitting Buildings with Hydroponics on Temperature Reduction in Urban Areas

**NOAA JR Division Winners - $100 each**

Project #470 – Shane Kaneshiro, Stevenson Middle School
Title: Essential Nutrients Present in Gray Water

Project #483 – Haeli Baldwin, Hilo Intermediate
Title: Comparing Homemade and Commercial Microbial Fuel Cells: Generating Electricity From Waste

Project #488 – Ka'imipono Khim / Shastine Sirivattha, Island Pacific Academy
Title: Biomass Energy

Project #517 – Bransen Hatekenaka, Hilo Intermediate
Title: Solar Desalination: Improvement of a Kit-Based Passive Solar Still Design

Project #527 – Emily Wagner, Hilo Intermediate
Title: Testing Different Designs of Stormwater Drainage Filtration Systems to Reduce Plastic Runoff

**McInerny Scholarship Awards**
**SR Division, 12th Grade only - $1,000 each**

Project #117 - Madison Kai, Iolani School
Title: Adsorption and Desorption Dynamics of a Wastewater Contaminant —Ethinylestradiol— in Soils

Project #120 – Faith Bonacrosi, Kamehameha Schools, Maui
Title: Investigating Urothelial Cell Death in a Novel Mouse Model of Prenatal Congenital Obstructive Nephropathy and Potential Therapeutics

Project #182 – Anna Grondolsky, Kamehameha Schools, Kapālama
Title: Building an Efficient Reversible Fuel Cell Stack for Use as a Backup Power Source

Project #147 – Brea Swartwood, Mililani High School
Title: Utilizing Neural Networking to Find Critical Indicators of Cognitive Impairment

Project #247 – Mary Winnicki, Punahou School
Title: Machine-Learning Driven Detection Of Metastatic Cancer (Year Two)

Project #196 – Amanda Schiff, Kealakehe High School
Title: Optimizing the Recovery System of a Dual Deployment High Powered Rocket

Project #229 – Brock Taylor, Kealakehe High School
Title: Is a Visible Light Metallicity Model a Viable a Viable Method for Comparing a Microquasar to a Quasar

Teacher Awards, $1,000 each for school related supplies:
- Yvonne Chan, Iolani School
- Malia Panglao, Kamehameha Schools, Maui
- Grant Yamashita, Kamehameha Schools, Kapalama
- Nel Venzon, Mililani High School
- Johannes Adams, Punahou School
- Justin Brown, Kealakehe High School


**University of Hawaii Foundation**

One-year Full Tuition at any UH Campus
Project #245 – Alexander Meneses, Pearl City High School
Title: Stair Climber Robot