first name #3]

Title of work: [Full title of work]

Recommender Name: [Full recommender name and their title]

**Summary Table** 

Last Name_First				Non-Stipend	Stipend	
Name	Mat/Supp	Serv/Out	Travel	Subtotal	Subtotal	Total
Last Name, First						
Name #1	\$2091	\$0	\$0	\$2091	\$720	\$2811
Last Name, First						
Name #2	\$258	\$50	\$0	\$308	\$720	\$1028
Last Name, First						
Name #3	\$0	\$0	\$0	\$0	\$720	\$720
Total	\$2,349	\$50	\$0	\$2,399	\$2,160	\$4,559

**Itemized Budget with Justification** 

Item	Item Name	Qty.	Cost Per	Cost	Justification
#			Unit		
			N	Materials/S	
1	Divers Nylon Weight Belt	3	\$9	\$27	Weight belt will be used to fasten weights to each individual
2	Lead 3 LB Scuba Weight	4	\$9	\$36	Weights will be used to assist individuals stay submerged during algal collection
3	Sea Sports Tabis	3	\$30	\$90	Used for feet protection from jagged reef flats
4	EVO 3mm Kevlar Dive	3	\$35	\$105	Necessary for testing of the device and fabrication (liquid metal injection)
5	Wet Suit	3	\$175	\$525	Wet suits will be used to keep us warm for extended periods of time during algal collection. They will also protect us from getting scraped from the jagged reef flats, especially in our wave prone site.
6	Dry Bag	3	\$22	\$66	Used to store important items in the field and to prevent them from water damage
7	3D Lidar Scanning Device	1	\$1500	\$1500	3D Lidar is necessary to our project, as it provides us with the ability to detect trace amounts of algae blooms in the ocean. Lidar remote sensing will allow us to pinpoint the exact location of the algae we are testing and provide us with the most accurate data. Without this device, we will not be able to execute our methodology as algal fluorescence is not detectable by the naked eye. No comparable devices are available for our use on campus, and our mentor was not able to source it for this project.
Mater	rials/Supplies Su	btotal		\$2349	
			Se	rvices/Out	sourcing

first name #3]

Title of work: [Full title of work]

Recommender Name: [Full recommender name and their title]

8	Poster	1	\$50	\$50	We will be giving a poster presentation at		
	Printing				the Undergraduate Showcase and would		
					like to have our poster professionally		
					printed.		
Servi	Services/Outsourcing Subtotal			\$50	\$50		
				Trave	el .		
Trave	el Subtotal			\$0			
Non-	Stipend Fundin	g Subt	total	\$2399			
				Stiper	nd		
9	Stipend	135	\$16	\$2160	Stipend for 3 group members, 45 hours of		
					funding for each person. Please see		
					attached stipend table.		
Total	<b>Total Funding Requested</b>			\$4559			

**Outside Funding Source** 

	# 1 dill dilling = 0 dil						
	Outside Funding Sources						
Item	Item	Qty	Cost per	Cost	Justification		
#	Name		Unit				
1	College of	1	\$2000	\$2000	We received \$2000 from the College of		
	Engineering,				Engineering to hire a boat that will take us		
	UH Mānoa				our team out to the sea in addition to		
					storing our equipment. This funding will		
					not overlap with any other items listed on		
					our budget		
Outsi	Outside Funding Source Total			\$2000			

first name #3]

Title of work: [Full title of work]

Recommender Name: [Full recommender name and their title]

[Last Name, First Name #1] Budget

Last N	Name, First Nai	me #1]	Budget		
Item	Item Name	Qty.	Cost Per	Cost	Justification
#			Unit		
			M	laterials/	Supplies
5	Wet Suit	3	\$175	\$525	Wet suits will be used to keep us warm for extended periods of time during algal collection. They will also protect us from getting scraped from the jagged reef flats, especially in our wave prone site. No wet suits are available to rent on campus
6	Dry Bag	3	\$22	\$66	Used to store important items in the field and to prevent them from water damage
7	3D Lidar Scanning Device	1	\$1500	\$1500	3D Lidar is necessary to our project, as it provides us with the ability to detect trace amounts of algae blooms in the ocean. Lidar remote sensing will allow us to pinpoint the exact location of the algae we are testing and provide us with the most accurate data. Without this device, we will not be able to execute our methodology as algal fluorescence is not detectable by the naked eye. No comparable devices are available for our use on campus, and our mentor was not able to source it for this project.
Mater	ials/Supplies Su	ıbtotal		\$2091	
					sourcing
Servio	ce/Outsourcing S	Subtota	.1	\$0	
				Trav	el
	l Subtotal			\$0	
Non-S	Stipend Funding	Subtot	tal	\$2091	
				Stipe	
9	Stipend	45	\$16	\$720	See attached stipend table
Total	<b>Funding Requ</b>	ested		\$2811	

[Last Name, First Name #1] Stipend Table

Last Maine,	Last Name, That Name #1] Supend Lable				
Date Range	Hours	Cost	Description of Tasks		
8/19-9/19	11	\$176	- Order supplies and gear		
			- Collect and analyze algal biomass samples from all zones		
			- Sort and identify algae to the lowest taxonomic level		
9/19-10/19	11	\$176	Analyze and compare collected data to Doty et al. 1969 data and prepare materials and supplies for Fall collection.		
10/19-11/19	11	\$176	- Collect and analyze algal biomass samples from all zones		
			- Sorting and identifying algae to the lowest taxonomic level		
			- Freezing and preserving samples		

first name #3]

Title of work: [Full title of work]

Recommender Name: [Full recommender name and their title]

11/19-12/2	12	\$192	Data analysis and final report compiling
Stipend Tota	ıl		
8/19-12/2	45	\$720	Each member will work 12 hours per week on this project. We are satisfying our group capstone requirement (3 credits) for our degree with this project. We subtracted 9 hours of expected hours per week for 15 weeks and are requesting 3 hours of stipend per group member for 15 weeks. We will use the stipend to support ourselves as we will not be working. This will allow for basic living expenses to be purchased while our full energy can be focused on the project



first name #3]

Title of work: [Full title of work]

Recommender Name: [Full recommender name and their title]

[Last Name, First Name #2] Budget

	Item # Item Name Oty. Cost Cost Justification					
Item #	Item Name	Qty.	Cost	Cost	Justification	
			Per Unit			
			Mat	erials/Sup	plies	
1	Divers Nylon	3	\$9	\$27	Weight belt will be used to fasten weights	
	Weight Belt				to each individual	
2	Lead 3 LB	4	\$9	\$36	Weights will be used to assist individuals	
	Weight				stay submerged during algal collection	
3	Sea Sports	3	\$30	\$90	Used for feet protection from jagged reef	
	Tabis				flats	
4	EVO 3mm	3	\$35	\$105	Necessary for testing of the device and	
	Kevlar Dive				fabrication in liquid metal injection	
	Gloves					
Materia	als/Supplies Su	btotal		\$258		
			Servi	ces/Outso	urcing	
8	Poster	1	\$50	\$50	We will be giving poster presentations	
	Printing				at the Undergraduate Showcase and	
	C				would like to have our poster	
					professionally printed.	
Service	es/Outsourcing	Subtota	ıl	\$50		
				Travel		
Travel	Subtotal			\$0		
Non-St	ipend Funding	Subtota	ા	\$308		
9	Stipend	45	\$16	\$720	See attached stipend table	
Total I	Funding Reque	ested		\$1028		

[Last Name, First Name #2] Stipend Table

Last Name, F	II St Ivai	ne #2] Su	penu Table
Date Range	Hours	Cost	Description of Tasks
8/19-9/19	11	\$176	- Order supplies and gear
	`		- Collect and analyze algal biomass samples from all zones
			- Sort and identify algae to the lowest taxonomic level
9/19-10/19	11	\$176	Analyze and compare collected data to Doty et al. 1969 data
			and prepare materials and supplies for Fall collection.
10/19-11/19	11	\$176	- Collect and analyze algal biomass samples from all zones
			- Sorting and identifying algae to the lowest taxonomic level
			- Freezing and preserving samples
11/19-12/2	12	\$192	Data analysis and final report compiling
Stipend Total			
8/19-12/2	45	\$720	Each member will work 12 hours per week on this project.
			We are satisfying our group capstone requirement (3 credits)
			for our degree with this project. We subtracted 9 hours of
			expected hours per week for 15 weeks and are requesting 3
			hours of stipend per group member for 15 weeks. We will
			use the stipend to support ourselves as we will not be
			working.
			This will allow for basic living expenses to be purchased
			while our full energy can be focused on the project

first name #3]

Title of work: [Full title of work]

Recommender Name: [Full recommender name and their title]

[Last Name, First Name #3] Budget

Item #	Item Name	Qty.	Cost	Cost	Justification	
			Per Unit			
			Mat	erials/Sup	plies	
Materia	als/Supplies Su	btotal		\$0		
			Servi	ces/Outsoi	urcing	
Service	es/Outsourcing	Subtota	ıl	\$0		
				Travel		
Travel	Subtotal			\$0		
Non-St	ipend Funding	Subtota	ıl	\$0		
	Stipend					
9	Stipend	45	\$16	\$720	See attached stipend table	
Total I	<b>Funding Requ</b>	ested		\$720		

[Last Name, First Name #3] Stipend Table

Last Name, F	urst Nar	ne #3] Sti]	pend Table
Date Range	Hours	Cost	Description of Tasks
8/19-9/19	11	\$176	- Order supplies and gear
			- Collect and analyze algal biomass samples from all
			zones
			- Sort and identify algae to the lowest taxonomic level
9/19-10/19	11	\$176	Analyze and compare collected data to Doty et al. 1969 data
			and prepare materials and supplies for Fall collection.
10/19-11/19	11	\$176	- Collect and analyze algal biomass samples from all
			zones
			- Sorting and identifying algae to the lowest taxonomic
			level
			- Freezing and preserving samples
11/19-12/2	12	\$192	Data analysis and final report compiling
Stipend Total			
8/19-12/2	45	\$720	Each member will work 12 hours per week on this project.
			We are satisfying our group capstone requirement (3 credits)
			for our degree with this project. We subtracted 9 hours of
			expected hours per week for 15 weeks and are requesting 3
			hours of stipend per group member for 15 weeks. We will
			use the stipend to support ourselves as we will not be
			working. This will allow for basic living expenses to be
			purchased while our full energy can be focused on the
			project