Materials, Services, Facilities and Technology Fee Fiscal Year 2019-2020 Budget Request Form

DUE: Friday, January 25th, 2019

If you have questions about this form, please contact David Daniels at david.daniels@csuci.edu
For additional information please consult the MSFT web page

▼ Application				
Project or Activity Title				
Field and Laboratory Environmental Monitoring Equipm	nent for Environmental Science and Resource Management			
Requestor				
Clare Steele				
December 19 and	December 5 and 1			
Requestor Phone Number	Requestor Email			
6502834671	clare.steele@csuci.edu			
Staff Support Member for Activity	Staff Support Member Email			
Emily Welsh ESRM Technician	emily.welsh@csuci.edu			
Amount of MSFT Funding Requested	Date Funding Needed By			
204819.00	2019-01-21			
Please select your AVP/Dean Kohli, Vandana - Dean of Arts & Sciences				
Require_DSA_AVP_Review				
Will you receive funds from any other source(s)?				
● No				
O Yes				
Has this project or activity previously received MSF	FT funding?			
● No				
O Yes				

Please describe how the use of MSFT funds for this project or activity will benefit the CI student body.

Please provide the following in your application. You may attach additional files as needed (applicants may be requested to meet with the committee to discuss proposals)

1. Brief Project Description

Describe the project and its benefits to the educational or co-curricular experience of students at CI. Please provide specific information about how MSFT funds will be used and their impact on the campus. Please describe how this project benefits CI students? Please describe items and provide justification if your request includes the purchase of computers, equipment, furniture or other materials. Please provide a timeline for implementation of the proposed project. If physical improvements are requested please describe need, scope and impact of work to be completed. If the project includes provision of services please indicate the type of service, personnel costs and level or quantity of service to be provided with project funds.

2. Project/Activity Budget

Please enclose a complete detailed budget of the entire project. Indicate specific items of requested MSFT funding including (where applicable) a schedule and priority of project items to be considered if the project is funded at a reduced level. Were other, less costly, approaches considered when preparing the budget for the project? Are there elements that could be eliminated or deferred if funding is not available for the entire project?

3. Project Assessment

Describe how the effectiveness of the project will be assessed and measures that will be used to determine if it has attained its objectives. Please note a report will be due at the end of the semester (or fiscal year for annual projects). If funded, how will the project acknowledge the use of student funds so that students are aware that their student fees made (or helped to make) it possible? If appropriate, indicate how the project or activity promotes sustainability at CI.

4. Sources of Project Support

Please list the other sources of funding, and additional support for the activity. If this project or activity has been conducted previously please indicate how it was funded. Please explain if MSFT is the only source of support for the project.

Brief Project Description

The ESRM program is growing rapidly and we request equipment and instrumentation in order to enhance our capacity to serve students in preparing them for careers in highly technical fields. The ESRM Program prepares students with technical expertise in the newest environmental monitoring technologies available in order to prepare them for professions in environmental science and monitoring locally and nationally. A new suite of educational endeavors, building upon both our previous success from embedding more data collection and research-based experiences into our ESRM courses and new advances/innovations in the field of environmental monitoring have created a need for additional technologies to augment our existing instruction.

This request for environmental monitoring equipment for the field and laboratory, ranked in order of importance to the program, will facilitate student experiences in sampling and analysis. Of particular high priority are items that are versatile and may be used to maximum benefit across several courses. The proposed equipment will greatly benefit students enrolled in the following courses (estimated enrollment):

ESRM 200 Principals of Resource Management (30)

ESRM 313-Conservation Biology (75)

ESRM 328-Intro to GIS (80)

ESRM 335-The Beach (75)

ESRM 350-Rest'n Design (15)

ESRM 351-Field Methods (30)

ESRM 410-Env Impact Asst. (20)

ESRM 428-Interm GIS (25)

ESRM 462-Coastal Management (50)

ESRM 463-Water Resources (30)

Brief Project Description Additional Documents					
Project/Activity Budget					
Please see attached budget. Items are grouped and are ranked, with highest priority items spreadsheet.	s towards the top of the				
Project/Activity Budget Additional Documents					
MSFT_2019_2020 Budget.xlsx					
Project Assessment					
The ESRM program will provide a report to the MSFT Committee after equipment purchas	e.				
Project Assessment Additional Documents					
Sources of Project Support	· · · · · · · · · · · · · · · · · · ·				
We have previously received support from MSFT focused on the area of water quality more specializations in Environmental Science and Resource Management necessitates the necessitation of the support other areas of student technical instruction in the laboratory and in the field. ESRM external faculty research grants to provide various monitoring technologies for student use these sources are now in question given new policy/spending priorities with numerous fed ESRM efforts to date. MSFT funding will be the only source of funding that will enable us the serve our students.	ed for additional equipment to If has historically relied heavily upon across our curriculum. Many of eral agencies which have funded				
Sources of Project Support Additional Documents					
Accounting String to Fund Any Overage Above MSFT Award					
GD901 767					
Fiscal Management: Project sponsor's unit or department may be responsible for incurred over and above what	at is funded through the MSFT. If				
support is requested for costs beyond initial award, or for use on activities or materials no	•				
the project sponsor must seek approval from the MSFT committee. The project sponsor v	vill be responsible for managing				
purchases, transfers of funds, and all transactions related to approved projects					
Please review MSFT web page for information about the fund and its objectives before su	bmitting your application.				
▼ AVP/Dean Review					

ESRM 491-Capstone Prep (50) ESRM 494-Indep. Research (10) ESRM 499-Capstone (50)

 I recommend approval of the 	ISFT Funds Request described on this page	
 I DO NOT recommend appro 	al of the MSFT Funds Request described on this page	
Comments		
Vandana Kohli	Jan 30 2019	

Categories	Description Item	m l	Jnit Cost	Quantity	Т	otal	Category Subtotals
Field Equipment	Satellite phone	Ç	\$930.00		2	\$1,860.00	\$40,299.00
	Reconyx SC950 C Camera traps	Ç	\$1,200.00		15	\$18,000.00	
	Bad elf GNSS	Ş	600.00		3	\$1,800.00	
	Matrice 600 UAV	Ş	6,000.00		1	\$6,000.00	
	Field dissecting microscopes	Ş	300.00		4	\$1,200.00	
	Ohaus portable scale	Ş	\$235.00		4	\$940.00	
	GAST vacuum pump	Ş	800.00		1	\$800.00	
	Soil Samplers	Š	80.08		2	\$160.00	
	Environmental Soil Sampling kit 4"	Ç	\$2,154.00		1	\$2,154.00	
	Sand Sludge sediment probe 4"	Ç	\$275.00		1	\$275.00	
	Soil Sampling Sieve Set Wildco Stainless	Ç	\$180.00		2	\$360.00	
	Nikon 8 x 32 Binoculars	Ş	\$250.00		15	\$3,750.00	
	HoboRX 3000 Advanced Portable Weather Station (Onset)	Ş	3,000.00		1	\$3,000.00	
Post Processing Equipment	Dell Latitude 7480 Laptop	5	\$1,377.00		3	\$4,131.00	\$41,656.00
	Ipads	Š	\$800.00		4	\$3,200.00	
	OxTS xNAV550G SN- LiDAR bridge		\$16,000.00		1	\$16,000.00	
	Processing Computer Station		\$3,000.00		1	\$3,000.00	
	LaCie Rugged Mini 301558 1 TB 2.5" External Hard Drive		\$125.00		25	\$3,125.00	
	Video Camera		\$120.00		1	\$120.00	
	Munsell Soil Color Book		\$200.00		4	\$800.00	
Salt/Sea/Brackish Water sampling	YSI multi-parameter sonde		\$10,280.00		1	\$10,280.00	
,,,,,,,,,	standards/reagents	Ç	\$1,000.00		1	\$1,000.00	
Environmental quality monitoring	Sonicator		\$1,100.00		1	\$1,100.00	\$9,190.00
ζ	Separatory funnel	Ç	\$90.00		1	\$90.00	
	Rotavap	Ç	6,500.00		1	\$6,500.00	
	Soxhlet extractor	Ç	\$600.00		1	\$600.00	
	Liquid-liquid extractor	Ç	\$900.00		1	\$900.00	
UAV Equipment	Inspire 2- Zenmuse		\$3,598.00		1	\$3,598.00	\$4,698.00
	Phantom 3 standard	Ç	\$550.00		2	\$1,100.00	
Oral History Capture	Camera Canon Rebel t7i SLR Camera	9	\$849.99		1	\$850.00	\$4,591.00
	Canon EF 24-70mm f/2.8L II USM Lens (compatible with Canon Rel	bel) S	\$1,749.00		1	\$1,749.00	
	Camera Tripod (standing)		\$260.00		1	\$260.00	
	Camera Tripod (Gorilla Pod)	Š	552.70		1	\$53.00	
	Wireless Lavalier microphone/recording system	Š	679.00		1	\$679.00	
	HD Projector	Š	\$1,000.00		1	\$1,000.00	
Sample storage	-80 Freezer		88,995.00		1	\$8,995.00	\$8,995.00
Safety/ lifesupport	Compressed air scuba tanks		\$200.00		8	\$1,600.00	\$5,140.00
	Aquatic safety USCG Type I		\$54.00		10	\$540.00	·
	Portable Breathable Air Compressor		\$3,000.00		1	\$3,000.00	
Instrumentation	FTIR-Nicolet Continuum Infrared Microscope		\$90,250.00		1	\$90,250.00	\$90,250.00
	·					-	\$204,819.00