Title	Group or Individual		Funding	
	Project (proposed number)	Description		Point of Contact
Spatial and Depth Distribution and Immobilization and Speciation of Soil Lead at a Contaminated Site on a California University Campus		The objectives of this study were to 1) assess the spatial and depth distribution of total and bioaccessible soil lead (Pb) across the Cal Poly campus, 2) evaluate the efficacy of inorganic (triple superphosphate and potassium phosphate dibasic) and organic (bonemeal) phosphorus (P) amendments on the immobilization of soil lead at several P:Pb molar ratios over a nine month incubation period, 3) determine lead speciation post incubation via x-ray absorption fine structure spectroscopy, and 4) correlate various measures of soil lead (total via pXRF, total via USEPA 3050B, bioaccessible via Mehlich 3 extraction).	N/a	Dr. Chip Appel; cappel@calpoly.edu
Sustainable Agriculture Research and Education at the Cal Poly Student Experimental Farm (SEF)	Group (3)	three students. One student will focus on the design and installation of an agroforestry demonstration garden at the SEF. Another student will be responsible for managing ongoing vegetable intercropping research at the SEF. Another student will be responsible for design and installation of a common garden	Funding for appropriate project materials will be provided. Limited funding is available for a stipend of \$17/ hour for use in tasks associated with these and other related projects.	Dr. Nick Babin (nbabin@calpoly.edu)
Documenting the impacts of solar array development on rangeland	Group (2)	How do USSE arrays impact microclimatic conditions, and how do these effects vary seasonally? ii) Do altered abiotic conditions affect plant and soil decomposer community structures and functions? How might these changes affect forage quality and quantity for sheep grazers? iii) How are soil carbon and nutrient pools under USSE arrays impacted by array placement?	Funding for travel, research supplies, and a modest quarterly stipend are available.	Dr. Seeta Sistla (ssistla@calpoly.edu)
Assessing stakeholder concerns and externalities of remanent plastics in CA agricultural systems			Funding for travel, research supplies, and a modest quarterly stipend are available.	Dr. Seeta Sistla (ssistla@calpoly.edu)
Conduct a comprehensive study to assess the underserved city residents most vulnerable to the physical, social, and economic impacts of climate change, as well as the root causes for these members being underserved.	Group (3)	make up the underserved segments of the target population, including equity considerations and corresponding development of potential implementation programs that drive benefit and target identified root causes. The assessment shall also support MCC's objective to formulate relevant curriculum to increase literacy and action around environmental justice and climate change	The City of SLO has granted MCC funding that can be provided toward achieving the project objectives. While the majority of funds are programmed for project oversight and management, limited funding is available for student stipends, materials and supplies, or transportation.	Luaren Bell, Micro Community Collaborative (lauren@sloclimatecoalition.org)
Support for carbon farm-planning program	Individual or Group (2)	or 63633 the drivers for earborn farm planning and benefits to landowners developing and implementing	Likelihood of funding for wages and travel. Potential summer internship in 2022	Las Tablas RCD; Devin Best (devin.usltrcd@gmail.com)
Greenhouse gas monitoring of area farms	Group (2-3)	oWhat are the greenhouse gas rates and/or ratios from conventional vs. organic vs. regenerative ag? oAre there on-site offsets that mitigate for greenhouse gas emissions? oTotal volume of carbon that can be sequestered on ag land? Does the Central Coast have the potential to act as a carbon sink through implementation of carbon sequestration practices? If so, what practices are highest priority for developing and implementing?	Likelihood of funding for wages and travel. Potential summer internship in 2023	Las Tablas RCD; Devin Best (devin.usltrcd@gmail.com)

Support for healthy soils program		oAssess and evaluate the various healthy soils program conservation practices. What is working and	Likelihood of funding for wages and	Las Tablas RCD; Devin Best
		working well? Why? Economics? Supply chains? Application?	travel. Potential summer internship	(devin.usltrcd@gmail.com)
		oWhat ag use (orchard, vineyard, row crops, range) has benefited significantly? Which sector has gone	in 2024	
		underserved?		
	Individual	oWhat are the long-term benefits of a single healthy soil conservation practice?		
		oWhat soil conservation practices that have not been incorporated into state-wide initiatives would be		
		beneficial for local growers?		
		oComparative study of soil conservation practices for hydrogeology? Are some practices better are		
		groundwater infiltration and soil moisture retention than others? If so, why?		
Evaluate post fire soil erosion and		The goal is to study the effects of wildfire severity on soil surface erosion and stream sedimentation and	Student wages, travel costs, and	
influence in policy for post-fire		determine which agencies, land managers, or organizations will benefit from this information as well as data gaps	professional conference fee covered.	
rehabilitations		that exist to inform policies toward post-fire recovery.		
	Individual	Objective 1: Quantify surface soil erosion for moderate and high burn severity hillslopes and subsequent		Dr. Chris Surfleet (csurflee@calpoly.edu)
		downstream sediment response for one winter post-fire.		
		Objective 2: Examine existing policies and stakeholders for the control of post fire soil erosion to give guidance on		
		producing more effective policies for post-fire response.		
Develop long term water quality	realization		Funding for lab costs. Potential TA	D. Christ floor (v. floor Control and)
assessment for SLO and Stenner Creeks	Individual	Develop plan for long term monitoring of macroinvertebrates communities, stream and riparian habitat, and	position.	Dr. Chris Surfleet (csurflee@calpoly.edu)
Water Quality Conditions in Central		chemical water quality for San Luis Obispo and Stenner Creeks 1)Do water quality parameters in Central Coast estuaries exceed critical thresholds known to impair critical native	At a minimum, the student and data	
California Bar Built Estuaries		species such as steelhead trout or tidewater goby?	collection costs will be covered; \$250	
California Bai Built Estuaries		2)How does the frequency or duration of bar-breaching affect water quality parameters that are known to impair	Stinond: Depending on available grant	
	Individual	critical native species?	Stipend; Depending on available grant funding, CLC may hire the student on	Aleksandra Wydzga, Creeks Land
	iliuiviuuai	critical native species:	an hourly basis for some portion of	Conservation (aleks@creeklands.org)
			the work.	