

**CAL FIRE-CCI Forest Health Research Program -- Grant Solicitation RP-RFP-2023-01 (FY 2023-2024)**

**List of eligible concept proposals received**



Project ID	Applying Organization & Principal Investigator	Project Title	Requested Funds	Research Project Type
60369484	TYLD CORP Timothy Robards	Accessible tree growth and mortality models for California forests with variable climatic inputs	\$539,840	Demonstration State Forest Research
60516330	Cal Poly Humboldt Sponsored Programs Foundation John-Pascal Berrill	Bringing Drought-tolerant Redwoods with Superior Growth and Wood Properties into Retail Nursery Production: Assessing Field Tests for Reforestation and Climate Adaptation	\$260,992	Demonstration State Forest Research
60583188	UC Cooperative Extension Tori Norville	Developing surface fuel loading models for Coast Redwood mixed forests using the photoload sampling technique	\$564,168	Demonstration State Forest Research
60386874	University of California Roger Bales	Valuing co-benefits of fuels treatments: water, wildfire, and resilience	\$754,332	Demonstration State Forest Research
60118424	University of California, Berkeley Yihong Zhu	Assessing the effectiveness of prescribed fire: An empirical approach to quantify the trade-offs	\$94,421	Graduate Student
60501278	University of California, Davis Sara Ludwick	Connecting Community Wildfire Protection Plans to Local Risk Drivers and Fuel Treatments	\$100,000	Graduate Student
60517602	University of California Davis Tessa Putz	Exploring the Effects and Effectiveness of Pile Burning: A Review	\$74,861	Graduate Student
60287912	University of California, Davis Frederik Strabo	Fuel Treatments, Externalities & Collective Action: How do Fuel Treatments on Public Lands Influence Private Landowners?	\$98,222	Graduate Student
60577899	North Carolina State University Olakunle Sodiya	Identifying potential locations for expanded, reactivated and new wood processing facilities to improve financial prospects and prioritize wildfire risk mitigation funding in the Priority Investment Landscapes of California, United States	\$99,758	Graduate Student
60138651	University of California, Irvine Di Fan	Machine Learning and Remote Sensing for Advanced Wildfire Management	\$100,000	Graduate Student
60342412	University of California, Santa Cruz Elizabeth Rennie	Mixed-method approach to non-invasively detect wildfire damage and decay on redwood and Douglas-fir	\$100,000	Graduate Student
60471423	University of California, Santa Barbara Joe Celebrezze	Using multispectral, climatic, and topographic data to map vegetation dynamics following high severity wildfire	\$100,000	Graduate Student
60351035	Upper Mokelumne River Watershed Authority Megan Layhee	Development and implementation of a long-term monitoring effort for a landscape-scale forest health and ecosystem resilience project in the Central Sierra Nevada	\$245,861	Special Topics Research
60566728	California Academy of Sciences Durrell Kapan	Evaluating Biodiversity Metrics for California Forests: A Framework for Resilience	\$250,000	Special Topics Research
60246854	San Mateo Resource Conservation District David Cowman	Optimizing and Scaling Standardized Forest Treatment and Disturbance Monitoring in the Coast Redwood Region	\$249,956	Special Topics Research

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60295640	The Regents of the University of California, University of California, Santa Barbara Alan Murray	Advanced Spatial Data Analytics of Construction-Level Details to Predict Parcel-and Neighborhood Wildfire Damage-Loss Potential	\$664,911	Synthesis and Tool Development
60520091	California State University Monterey Bay Adam Purdy	Delivering live fuel moisture content to improve fire risk assessment and support risk mitigation activities	\$641,649	Synthesis and Tool Development
59368972	University of California Agriculture and Natural Resources Luca Carmignani	Developing a methodology for assessing the flammability of vegetation in the Wildland-Urban Interface	\$750,000	Synthesis and Tool Development
60498195	University of California, Davis Andrea Duane	Improving coarse woody debris consumption modeling for better smoke and emission estimation in current Californian fires	\$300,000	Synthesis and Tool Development
60601957	US Forest Service - Pacific Southwest Research Patricia Manley	Moving from treatment outputs to outcomes: A scientifically robust method and demonstration for quantifying risk reduction and improvement to ecosystem resources across landscapes in California	\$565,000	Synthesis and Tool Development
60469164	Conservation Biology Institute James Strittholt	Operationalizing GTR-270 Ecological Restoration Principles	\$508,850	Synthesis and Tool Development
60173805	Cal Poly Humboldt David Greene	predicting the cone crops of conifers using prior weather data	\$53,000	Synthesis and Tool Development
60507769	California Polytechnic State University-San Luis Obispo Stewart Wilson	Using Artificial Intelligence to Map Soil Burn Severity: Decision Support Tools for Postfire Assessment	\$709,793	Synthesis and Tool Development
60295279	California State University, Fresno Foundation Steve Blumenshine	Wildfire Impacts to Water Quality in vulnerable Watersheds & Communities	\$149,757	Synthesis and Tool Development
60472763	University of Nevada, Reno Hamed Ebrahimian	“WoodyCrete”: a Sustainable Building Construction Material Using Forest Management Residue	\$250,000	Wildfire and Forest Research (General)
60245834	University of California, Santa Barbara Leander Anderegg	A Tale of Two Resources: Understanding fire-drought interactions and their management implications	\$750,583	Wildfire and Forest Research (General)
60567585	San Jose State University Research Foundation Ali Tohidi	Advancing Wildland-Urban-Interface (WUI) Fire Risk Modeling Using 3D Physics- Based High-Resolution Simulations	\$662,721	Wildfire and Forest Research (General)

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60447436	Conservation Biology Institute Wayne Spencer	Applying Fire-Atmosphere Coupling Physics to Improve Current Operational Fire-Model Predictions	\$378,844	Wildfire and Forest Research (General)
60408584	University of California Davis Shannon Lynch	Assessing microbial communities to facilitate climate-resilient forest restoration	\$674,500	Wildfire and Forest Research (General)
60377442	Oregon State University Sean Matthews	Balancing fuels management objectives and wildlife conservation: Monitoring of fisher response to fuels management in northern California forests	\$750,001	Wildfire and Forest Research (General)
60382377	Utah State University Brendan Murphy	Burn severity, runoff response, and pre-fire assessments for California watersheds	\$750,000	Wildfire and Forest Research (General)
60475170	University of California, Berkeley Paul Mayencourt	California Design Guidelines for new wildfire-resistant constructions with low-carbon materials	\$322,728	Wildfire and Forest Research (General)
60445365	Board of Regents NSHE obo the Desert Research Institute Timothy Brown	CANSAC Fire Weather Forecast Evaluation and Fire-Atmospheric Coupled Model (WRF-SFIRE) Application for Hazardous Wildfire and Prescribed Fire Decision-Making	\$750,000	Wildfire and Forest Research (General)
60462379	Spatial Informatics Group - Natural Assets Laboratory Marc Mayes	Climate-resilient oak and riparian woodland restoration for wildfire hazard mitigation: Planting strategies, field and remote sensing performance metrics across central and southern California	\$749,750	Wildfire and Forest Research (General)
60458713	Conservation Biology Institute Erin Conlisk	Community Wildfire and Social Vulnerability Spatial Visualization and Analysis Tool	\$457,700	Wildfire and Forest Research (General)
60449811	Colorado State University Ellen Wohl	Decision Support System Tools for Characterizing Forested River Corridor Function for Increased Climate Change Resilience	\$204,557	Wildfire and Forest Research (General)
60164685	University of California, Santa Barbara Leander Anderegg	Defining the mechanisms of recruitment limitation following high severity wildfire to predict California conifer forest resilience in an altered climate	\$744,000	Wildfire and Forest Research (General)
60451196	University of California Los Angeles Idil Akin	Developing a data driven post-wildfire reforestation strategy for the long-term health of California forests	\$750,000	Wildfire and Forest Research (General)
60569235	The Pacific Forest Trust, Incorporated Mike Bradley	Developing new tools to promote forest function and fire resilience in northern California forested watersheds under a changing climate.	\$750,000	Wildfire and Forest Research (General)
60295775	University of California, Santa Barbara Alan Murray	Development of a Full-scale Vegetation Fire Test Standard to Create a Database of HRR Curves for Built Environment Exposure Analysis	\$749,542	Wildfire and Forest Research (General)
60178366	Center on Food Security and the Environment, Stanford University Marshall Burke	Development of a metric for quantifying downstream benefits of avoided wildfire: the Monetized Benefit of a Treated acre (MBTA)	\$721,576	Wildfire and Forest Research (General)

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60369397	Golden Gate National Parks Conservancy Daniel Franco	Development of Prescriptions to Increase Bishop Pine Management for Forest and Community Resilience in Marin County, CA	\$469,700	Wildfire and Forest Research (General)
60411412	Desert Research Institute Allison Greene	Enhanced Smoke Suppression and Capture	\$649,350	Wildfire and Forest Research (General)
60579969	California Polytechnic State University San Luis Obispo Derek Manheim	Enhancing Carbon Sequestration in Californian Forests via Engineered Wood Burial	\$676,470	Wildfire and Forest Research (General)
59696589	The University of California, Berkeley Lining Yao	E-seed: Use-inspired Translational Research, Design, Manufacturing and Field Deployment of Aerially Delivered Self-burying Seed Carriers for Reforestation	\$562,599	Wildfire and Forest Research (General)
60519815	University of California, DAVIS Joseph Stewart	Establishing a Network of Assisted Gene Flow Experiments to Support Climate-Adapted Seed Selection for Reforestation Success in California	\$747,517	Wildfire and Forest Research (General)
60567454	Oregon State University David Lewis	Estimating the economic benefits of fuel treatments on nearby private land	\$313,985	Wildfire and Forest Research (General)
59802211	University of California Davis Jamie Hansen-Lewis	Fighting Fire with Fire: Does Clean Air Policy Abate Prescribed Fires?	\$302,400	Wildfire and Forest Research (General)
60100201	University of California, Merced Ricardo Cisneros	Forest Fires impact on human health	\$621,619	Wildfire and Forest Research (General)
60517610	Cal Poly Humboldt Lucy Kerhoulas	Forest Responses to Wildfire and Drought in a Conifer Diversity Hotspot	\$500,000	Wildfire and Forest Research (General)
60380365	University of Washington Van R. Kane	From trees to ecoregion: A synoptic integrated remote sensing and FIA assessment of forest risk and opportunities for increased resilience across the Sierra Nevada	\$131,807	Wildfire and Forest Research (General)
60489019	Resources for the Future David Wear	Health impacts of fuel treatment options in California	\$250,000	Wildfire and Forest Research (General)
60503657	University of Idaho Jessica Miesel	How do environmental characteristics and climate influence fuel treatment effectiveness in mixed-conifer forests?	\$523,500	Wildfire and Forest Research (General)
60509420	Georgetown University Gregory Albery	How do fires affect wildlife disease across ecological systems?	\$298,743	Wildfire and Forest Research (General)
60515119	University of Wyoming Di Yang	Illuminating Shifting Pyrogeographies: Fusing Archival Reconnaissance With Modern Observations And Public Insights To Map 60 Years Of Coupled Land Use And Fire Regime Dynamics	\$450,000	Wildfire and Forest Research (General)
60208959	US Forest Service Rocky Mountain Research Station Alexandra Urza	Impacts of drought-related tree mortality on soil carbon stocks in pinyon-juniper woodlands	\$663,197	Wildfire and Forest Research (General)

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60425988	University of California, Davis Yufang Jin	Improved prediction of wildfire behavior along the wildland-WUI continuum under extreme weather: large scale synthesis toward fire resilient ecosystems and communities	\$575,921	Wildfire and Forest Research (General)
60572667	Colorado State University Anthony Vorster	Improving Carbon Estimation in Coast Redwood Forests: A Multi-Scale Assessment of Management and Wildfire Impacts on Forest Carbon	\$710,077	Wildfire and Forest Research (General)
60510044	University of Washington Susan Prichard	Improving characterizations of fire severity in reburned areas and non-conifer systems using repeated field surveys and lidar metrics	\$344,200	Wildfire and Forest Research (General)
58974119	San Jose State University Research Foundation Craig Clements	Improving Extreme Fire Weather Prediction Using a Fire Weather Wind Profiling Network	\$486,064	Wildfire and Forest Research (General)
60518799	University of California, DAVIS Joseph Stewart	Improving Predictive Models of Natural Postfire Conifer Regeneration to Align with their Current use for Statewide Reforestation Decision Support	\$386,589	Wildfire and Forest Research (General)
60161369	Conservation Biology Institute Alexandra Syphard	Influence of social vulnerability on wildfire structural protection	\$589,400	Wildfire and Forest Research (General)
60477210	Stanford University Matthias Ihme	Integrated experimental characterization and physics-based modeling of firebrand in wildland and WUI fires	\$750,000	Wildfire and Forest Research (General)
59319192	University of California, Merced John Abatzoglou	Machine Learning Modeling of Fire Impacts on California's Water Resources	\$730,000	Wildfire and Forest Research (General)
60510203	University of Nevada Reno Dani Or	Mechanistic Models for Firebrand Generation for Application in Wildland Fire Models	\$498,754	Wildfire and Forest Research (General)
60358613	University of California, Merced Crystal Kolden	Optimizing wildfire disaster mitigation through integration of biophysical and social vulnerability	\$748,500	Wildfire and Forest Research (General)
60489496	University of Nevada, Reno Jonathan Greenberg	Organic matters: fuel spread models need CA-scale estimates of ground fuel	\$742,500	Wildfire and Forest Research (General)
60182115	University of California, Davis Malcolm North	Post-wildfire resilient reforestation	\$400,000	Wildfire and Forest Research (General)
60418000	The Regents of the University of California Lara Kueppers	Projecting interactions between restored fire regimes and future climate in California's oak woodlands	\$411,500	Wildfire and Forest Research (General)
60461341	California Academy of Sciences Rebecca Wilcox	Pyrodiversity and biodiversity; characterizing the natural range of variation for understory plant communities	\$748,429	Wildfire and Forest Research (General)
60598312	University of California, Berkeley John Battles	Quantifying fuel across multiple spatial scales and its impact on wildfire behavior and severity in California forests	\$541,154	Wildfire and Forest Research (General)
59250131	University of California Berkeley David Wahl	Reconstructing two thousand years of wildfire in the Sierra Nevada: Creating a regional baseline of wildfire activity for modern management strategies	\$649,921	Wildfire and Forest Research (General)

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60502740	University of California, Santa Barbara Carla D'Antonio	Restoration as an ignition reduction tool in the wildland urban interface	\$728,612	Wildfire and Forest Research (General)
60446503	University of California Davis Alessandro Ossola	Rots or flames? Measuring litter decomposability, flammability and traits in the California's wild-urban interface (WUI)	\$704,890	Wildfire and Forest Research (General)
60516262	Sierra Resource Conservation District Kelly Kucharski	Sierra Nevada Biomass Recovery Research Project	\$783,522	Wildfire and Forest Research (General)
60315005	University of California, Berkeley - Berkeley Forests Robert York	Silvopastoral Management as an Alternative for Post-Wildfire Reforestation	\$624,227	Wildfire and Forest Research (General)
60582078	Stanford University Chris Field	Supporting Wildland Fire Management Policy with Causal Inference that Accounts for Treatment Effect Heterogeneity and Spatial Spillovers	\$635,462	Wildfire and Forest Research (General)
60137971	University of California Merced Lilian Davila	Sustainable and Fire-Resistant Structures: Advancing Climate Adaptation through Forest Fuel Reduction and Biomass Utilization in California	\$640,310	Wildfire and Forest Research (General)
60494599	San Jose State University Research Foundation Julia Gaudinski	The combined effects of wildfire and post-fire fuels management on biodiversity and carbon storage	\$398,833	Wildfire and Forest Research (General)
60100210	TreePeople David Pineda	TreePeople Applied Nucleation in the Sierra Pelona Mountains for Reforestation of the Angeles National Forest	\$477,743	Wildfire and Forest Research (General)
60515898	TreePeople David Pineda	TreePeople Climate-Adaptive Post-Fire Oak Restoration through Assisted Migration and Seed Provenance in the Angeles National Forest	\$378,030	Wildfire and Forest Research (General)
60515174	TreePeople David Pineda	TreePeople Post-Fire Restoration and Regeneration Success for Critical Conifers in Climate Change Refugia of National Forests	\$597,409	Wildfire and Forest Research (General)
60566794	TreePeople David Pineda	TreePeople Seed Pellets for Rapid Reforestation Success in the Angeles and San Bernardino National Forests	\$725,117	Wildfire and Forest Research (General)
60390138	Forest Lakes Neighborhood Firewise And Safety Association Craig Winter	Use of Multimodal Generative AI to analyze, design and monitor the wildfire resilience, water consumption and impact on biodiversity of 100% native plant landscaping within the 100 foot zone surrounding a forest community home.	\$78,555	Wildfire and Forest Research (General)
60566976	Colorado State University Stephanie Kampf	Wildfire impacts on snow and streamflow at watershed to regional scale	\$656,724	Wildfire and Forest Research (General)
<b>Total Number of Eligible Concept Proposal Applications: 85</b>			<b>Total Funding Requested: \$42,295,204</b>	