

CAL FIRE Business and Workforce Development Grant Applications --2022 Q1				<i>Disclaimer: This roster includes all eligible and ineligible project proposals.</i>
Applicant	Project Name	County	Requested Funds	Project Description
Omni BioEnergy, LLC	Biomass Gasifier Modification to Dramatically Increase Yield of Forest Biomass Conversion to Renewable Fuels and Biochar	Contra Costa	\$ 499,464	Omni BioEnergy, LLC will develop and demonstrate a non-emission reactor modification to a proven gasification system to increase renewable fuel/electrical yield per unit by an order of magnitude, thus increasing biomass processing of fuels reduction from 100 acres per year to 1,200 acres of California forest per year per instance. This project deliverable deployed statewide could materially change the price paid for non-merchantable forest biomass while generating enough biochar to sequester nearly 3.0 million metric tons of fixed carbon per year.
Town of Truckee	Bioenergy Project Feasibility Assessment and Biochar Market Study for Truckee, CA	Nevada	\$ 120,000	The Town of Truckee proposes to conduct a scoping and feasibility study for a permanently located bioenergy facility in close proximity to the Town of Truckee. The Town is currently studying bioenergy facility types with a goal of determining the 1 or 2 leading candidates by summer 2022. This proposal is to conduct a final scoping and feasibility study for the selected facility type based on construction costs, comprehensive facility analysis including GHG reduction components, and potential return on investment from biochar production.
Fire Forward, Audubon Canyon Ranch	Fire Management Intensive Workforce Development Program	Marin, Mendocino, Sonoma	\$ 2,323,379	This proposal requests funding to launch the Fire Forward Intensive, a workforce development and stewardship leadership initiative that opens doors to forestry, fire agency, fuels management, prescribed fire, land stewardship, or academic careers. The Intensive will train five full-time crewmembers per year, 20 over four years, and complement our ongoing Fellows program that prepares an additional five to ten people annually from land management and conservation organizations stewarding thousands of acres across the region. Each trained leader can, in turn, field additional crews and begin filling the void that currently exists.
San Bernardino Mountains Land Trust	San Bernardino Mountains Land Trust Tree Nursery	San Bernadino	\$ 275,000	The goal of the San Bernardino Mountains Land Trust is to establish a tree nursery that will create and provide a reliable source of quality native tree seedlings and saplings to private landowners. The San Bernardino Mountains Land Trust (SBMLT) has a secured site with an existing building that can easily be converted into a tree nursery. SBMLT has several preserves across the San Bernardino Mountains for seed stock. In addition to utilizing community volunteers, the SBMLT will be creating new job positions to meet the needs of the project. SBMLT has experience in organizing the community in grassroots restoration and reforestation projects.

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Carbo Culture, Inc	Using forestry waste in biochar production to support resilient California forests, reduce GHG, and create green jobs	San Joaquin	\$ 494,900	In this project, Carbo Culture will build and operate a novel, industry-leading biochar production facility in Central Valley, California using forestry biomass and woody waste materials. The intended outcome of the project is to produce biochar from forest biomass and surplus woody material that meets the required performance standards, creating an SOP for forestry biomass in a commercial sized reactor. With the project we will demonstrate a viable, scalable technological solution for both carbon removal and wood upcycling from forest fire clearings and other forestry biomass.
Yosemite Clean Energy	Engineering to support development of a wood waste to biofuel gasification plant in the Northern Sierra Nevada	Butte	\$ 500,000	Yosemite proposes to complete detailed process design (FEL 3) engineering of a woody biomass gasification plant. The plant would process 100,000 bone dry tons per year of biomass to produce 30 tons of renewable natural gas (RNG) and 13 tons of green hydrogen per day.
Collins Pine Company	Chester Mill Upgrades for Cost Efficiency, Grade Recovery, and Throughput	Plumas	\$ 1,973,000	Collins proposes to replace and upgrade its sawmill stacker with a new machine that will improve speed and quality of stacking, keeping pace with the sawmill. In addition, Collins proposes to upgrade to a state-of-the-art grade scanner system at the planer, including a new lug loader for faster processing through the board trimmer. These upgrades will help Collins to process more material in a more cost-efficient manner, allowing better contributions to post-fire recovery on all lands and continuing support of the local sustainable forest management economy into the future.
Riordan Land Management	Towle Mountain Fuels Reduction	Nevada	\$ 80,000	This project will mitigate wildfire fuel potential in this densely treed area. Proposed activities will improve the timber stand and reduce fuels. This will be accomplished through mechanical release, pruning, and slash disposal. This project is needed due to the severity and volume of the fuels that need to be mitigated. There is a continuous threat of wildfire in the region, limited accessibility to fire fighting apparatus in this development, and a desire to protect the Towle Mountain Properties from wildfire.
Camptonville Community Partnership	Yuba County Fuel Subsidy Program for Camptonville Forest Biomass Business Center	Yuba	\$ 1,642,402	This project will establish a feedstock subsidy for the Camptonville Forest Biomass Business Center (FBBC), a 3.5-megawatt forest biomass-to-energy facility in Yuba County. The feedstock subsidy will enable the FBBC to secure necessary long-term feedstock contracts at a rate that covers operators' escalating costs of forest restoration work and complete the final steps to achieve commercial operation of the bioenergy facility.
BMEC	Blue Mountain Electric Company Forest Biomass Plant	Calaveras	\$ 2,000,000	This project is to build the 3MW Blue Mountain Electric Company Biomass Energy Facility at a shovel-ready site located in Wilseyville, CA. The operational facility will create rural jobs, reduce catastrophic wildfire risk, and improve regional air quality through the reduction of open burning of forestry residues.

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Sierra Nevada Alliance	The Sierra Corps Forestry Fellowship Program	Alameda, Alpine, Calaveras, El Dorado, Fresno, Madera, Mariposa, Mono, Nevada, Placer, Sierra, Tulare, Tuolumne	\$ 3,901,349	The Sierra Corps Forestry Fellowship Program produces quality forest health project managers that receive professional mentorship and guidance toward "stackable certificates" that create future forest leaders. The program's goal is to develop a larger and more qualified forestry workforce within the Sierra Nevada. The grant will fund four additional years of this workforce development program.
Placer County Resource Conservation District	Forestry and Natural Resources Career Mentorship Program	Statewide	\$ 250,880	This application will fund a part-time program manager for the Forestry and Natural Resources Career Mentorship Program. This program, which has been piloted for two academic years at five educational institutions in California, seeks to increase entry and retention of early career professionals through personalized, one-on-one mentorship. Participating schools include UC Berkeley, Cal Poly San Luis Obispo, Cal Poly Humboldt, College of the Redwoods, and Shasta College. The program provides professional trainings (resume development, interview skills, etc.), and coordinates panels of career professionals to help students transition into the workforce.
University of California, Agriculture and Natural Resources	Forestry Institute for Teachers	Statewide	\$ 397,156	This proposal seeks to increase youth entry into natural resource professions by expanding the Forestry Institute for Teachers (FIT) program. The FIT program leverages a network of volunteers to educate California teachers about forest science, management, operations, and manufacturing. The purpose of the program is to educate teachers about the diverse career opportunities within forestry so that they can guide their students into joining the natural resource workforce.
Tuolumne Biomass LLC	Tuolumne Biomass CHP System	Tuolumne	\$ 2,000,000	This Grant will fund the design, procurement, and installation of a Combined Heat and Power (CHP) System, expanding the impact and scope of a new fully integrated forest products processing facility planned to be built in Tuolumne County, converting low-value, small-diameter logs into higher-value products, including bundled firewood, agricultural posts & poles, chips, bioenergy feedstock, and other products. This proven business model is an expansion of affiliate Heartwood Biomass's decade of experience operating a similar facility in Northeastern Oregon, centered entirely around building a restoration economy that monetizes small-diameter trees.

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The Regents of the University of California (University of California, Davis)	Biomass Utilization and Renewable Energy Decision Support System	Statewide	\$ 499,885	This proposal will allow an expert team from the University of California at Davis, supported by consultants from Sonoma Ecology Center, to expand on the extensive web-based forest resource decision support system API (app) developed under the support of the California Energy Commission (EPIC GFO-15-325, EPC-17-016). The expansion of the app will add information on a wide range of creative wood-utilization technologies focused on biochar and biofuels. It will also add critical information about ecological forest management techniques that will generate wood waste materials. Data and information in the revised app will ease decisions by both private corporations and public agencies on planning this broad range of needed facilities.
Mattole Restoration Council	Mattole Forest Resilience Training Project	Humboldt	\$ 482,893	The Mattole Restoration Council (MRC) will provide four National Wildfire Coordinating Group (NWCG) S-212 chainsaw trainings and two prescribed fire training exchanges (TRES) annually for four years (16 S-212 trainings and 8 TRES events total). The trainings will build local capacity to participate in forest thinning, fuels reduction and prescribed fire treatments.
Aemetis Advanced Products Keyes, Inc.	Cellulosic Ethanol to Accelerate Forest Fuels Reduction in Priority Forest Landscapes	Stanislaus	\$ 2,000,000	Aemetis, in collaboration with ATSI, the Joint BioEnergy Institute, Prolonic, and Momentum, proposes to deploy and fully demonstrate a woody biomass to fuels technology that circumvents the current limitations surrounding the extraction of cellulosic sugars from woody biomass. Leveraging technology developed with the support of the CEC, Aemetis will complete design, construction and commissioning of a 2M GPY cellulosic ethanol facility that will convert conifer biomass from fuels treatment activities in high-priority forested regions of the Sierra Nevada into an ultra-low carbon biofuel derived from 100% forest biomass. It will remove 25,000 BDT per year of woody biomass from high priority areas, helping protect 7,000 acres/year from wildfire, and create 47 forest sector jobs, plus strong potential for indirect forestry jobs associated with increased demand for the targeted fuel.
Hat Creek Lumber, Inc.	Hat Creek Lumber, Inc.	Shasta	\$ 2,000,000	Hat Creek Lumber (HCL), Inc. is comprised of local business owners who will to construct and operate a community-scale sawmill in 2022/2023 near Burney. The mill design will focus on processing low value sawlogs sourced from U.S. Forest Service fuel reduction and forest health projects, and projects designed to reduce fire hazard within the Wildland Urban Interface. Grant funds would be used to purchase sawlogs for operations. When completed, the sawmill will be integrated with Hat Creek Bioenergy. Roughly 25 new jobs will be created and maintained, equating to approximately 2,000-5,000 acres treated/year.

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Mendocino Redwood Company	Feasibility Study for MFP Biomass-to-Energy Plant	Mendocino	\$ 230,000	Mendocino Forest Products (MFP) proposes to produce a comprehensive feasibility study that will analyze up to eight biomass-to-energy technologies with potential for implementation at MFP's Ukiah, California sawmill. The project's objective is to grade the technologies with respect to their suitability to the site and region, their overall economic potential, and their risk profile, allowing MFP to make an informed decision for a sustainable investment. The study will include a review of the existing mill assets, an operational cost analysis, a capital cost estimate, as well as identification of risk for the potential options. The cost estimates are to be performed by experts in their field who have financed, designed, and built numerous renewable energy assets in their careers. This feasibility study is a critical step in the process of developing new project and will provide MFP a reasonable level of confidence moving forward.
Atlas Tree Surgery Inc.	Atlas Tree Wood Utilization Feasibility Analysis	Lake, Mendocino, Sonoma	\$ 118,266	Atlas Tree, a forestry, residential, commercial, and municipal tree service and management company, proposes to partner with demonstrated experts from the non-profit organization Sonoma Ecology Center to identify preferred strategies to ecologically and economically use more effectively the immense volumes of woody wastes that its vegetation management actions generate. Atlas intends to explore a range of technologies that can convert wood into biochar and perhaps into other useful products like heat, electricity, and biofuel.
Anderson Biomass Complex (ABC) (legal name Bluelake Roundstock Company, LLC)	Initial Build Out of a Low Carbon Biomass Depot	Shasta	\$ 603,666	The Anderson Biomass Complex will build out infrastructure necessary to fully develop a complementary business unit to their existing firewood processing business, one that will process low value biomass into hog fuel/wood chips, using (hopefully renewable) electricity driven equipment. This will significantly reduce costs, criteria pollutants, and carbon emissions compared to conventional woody biomass reduction, enabling greater utilization of such material in California's next generation biomass economy.
San Luis Obispo County Air Pollution Control District	Proposal to Quantify GHG, Criteria Pollutant, and Dioxin Reductions and Carbon Sequestration Potential from Small-Scale, Low Emissions In-Forest Burn Techniques	Mendocino, San Luis Obispo, Sonoma	\$ 342,944	California Air Pollution Control Officers Association, Usal Redwood Forest Company, Sonoma Ecology Center, USFS's Missoula Fire Sciences Laboratory, and Washington State University developed this collaborative proposal to conduct replicated laboratory and field tests to quantify greenhouse-gas, dioxin and criteria-pollutant emissions reductions and carbon-sequestration potentials (biochar) for two unique low-emissions burn techniques (top-lit conservation burn and flame-cap kiln) relative to traditional open-pile burning of forestry materials/wastes which will serve as a control. USFS/SEC will provide lab and field emissions reduction, sequestration, and biochar quality results.

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Aemetis Advanced Products Keyes, Inc.	Advanced Cellulosic Fuels Development to Valorize Forest Fuels Reduction	Stanislaus	\$ 499,999	Aemetis proposes to advance a new-to-the world technology that circumvents current limitations surrounding the extraction of cellulosic sugars by pioneering a novel route for deconstructing woody biomass using ionic liquids (ILs). ILs can preferentially solubilize lignin, leaving high-purity hemicellulose and cellulose, which is easily separated by filtration for subsequent hydrolysis. In this proposal, Aemetis and the project team seek to further advance the technology to support and scale-up to full commercial operation. Work to date has included the development of viable small scale production systems that generate cellulosic sugars in a batch-based process. Commercial scale operation, however, will be greatly facilitated by transitioning select elements of the system to a continuous process.
Biogas Energy	Biogas Energy Workforce Training Program	Placer	\$ 500,000	This project will train operating technicians for Biogas Energy's pyrolysis facility and staff pyrolysis projects under development. The project will create a curriculum, hire 2 trainers and 8 trainees, and create a training template to be used in all Biogas Energy pyrolysis facilities in California.
The Forestry and Fire Recruitment Program (FFRP)	Expanding Capacity for Fuels Reduction Worker Training & Projects (FFRP)	Alameda, Contra Costa, Los Angeles, Marin, Orange, Riverside, San Bernadino, San Francisco, San Mateo, Santa Clara, Solano, Sonoma, Ventura, Statewide	\$ 4,742,154	The Forestry and Fire Recruitment Program (FFRP) is a 501(c)(3) that provides career support to those who have been in, or are returning home from, California's Conservation Camps (i.e. "Fire Camp") and are interested in careers in the wildland and / or forestry sector. Funding from CAL FIRE would support FFRP in three critical ways: (1) train and place 70 people per year in fire prevention and suppression careers statewide; (2) add 6 additional hand crews to our workforce and increase prevention crew capacity from 3 to 10 in Los Angeles and the SF Bay Area; and (3) provide immediate fire prevention services throughout California.
Earth Foundries, Inc.	SF Bay Area Biochar Market & Sales Development	Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma	\$ 297,828	Earth Foundries will use grant funds for both SF Bay Area biochar market development and for Earth Foundries' sales development efforts. Both are critically necessary to enable Earth Foundries to create a biochar business. This biochar market development work will benefit all regional biochar sellers and will help to create a market for forest waste thereby lowering forest waste disposal costs.
Forestree Collective	Forestree Collective: increasing wood products manufacturing & markets	Sonoma	\$ 100,000	Forestree Collective will conduct research and development activities that support wood products infrastructure development in CA. They will focus on two areas of research and development: feedstock supply studies, and automated robotics to increase production efficiency. Feedstock Studies: Will work with local partners to develop a scalable, modular feedstock supply program. Will plan to secure material needs for the first five years: 120,000 bf (log scale). Automated Robotics: Will upgrade an existing software package to include higher production capacity and the integration of Autodesk Fusion CAD/CAM software.

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Facilities Services, University of California, Berkeley	Golden Bear Tree Operations (GBTO) Workforce Development Program	Alameda	\$ 605,520	The Golden Bear Tree Operations (GBTO) workforce development program will introduce forestry and wildland fire practices to individual trainees developing tree operations skills for use in fuels treatments. The program will offer three certification levels introducing new workers and expanding skills for those with experience. In addition, the GBTO program will offer specialty trainings to introduce new techniques to workers with advanced skills. The training program is divided into 9 tasks to facilitate: staff hiring, curriculum development, trainee recruitment and retention, training programs, mid program review with assessment and adjustments, grant closeout, management and reporting.
Trinity River Timber Company dba North Fork Lumber Company	North Fork Lumber 5MW Biomass Cogeneration Development	Humboldt	\$ 2,000,000	North Fork Lumber Company (NFLC) proposes to advance a 5MW biomass cogeneration facility that will create stable demand for approximately 35,000-50,000 BDT of low-value biomass (sourced from local sawmills and various wildfire mitigation and forest restoration projects), export up to 3MW to the grid through the BioMAT program, offset the sawmills current energy demand, and utilize thermal energy for on-site kiln drying. NFLC is now requesting CAL FIRE funds to complete and submit permitting documentation, update interconnection studies and complete interconnection upgrades, complete additional technical studies, and complete construction-ready documentation, positioning the project for final site prep and facility construction.
Academy Trained LLC	Academy Trained Mechanized Equipment Curriculum Development for Vegetation Management, ROW Maintenance and Fire Damaged Hazard Tree Removal Operations	Sonoma	\$ 500,000	Academy Trained LLC proposes to develop a curriculum for heavy equipment operation in vegetation management, ROW maintenance operations and the removal of fire-damaged hazard trees. To design the heavy equipment training, Academy Trained proposes to conduct supporting research and development to establish safety standards and best practices for modern forestry equipment as applied to vegetation management, ROW maintenance operations and fire-damaged hazard tree removal.
Berkeley Economic Advising and Research (BEAR)	Community Bioenergy Development	Statewide	\$ 2,000,000	BEAR intends to leverage its expertise in economic analysis and technical training coordination to implement a 3-year project of biofuel energy research and promotion, developing community-based bioenergy conversion facilities. With a central focus on marginalized communities threatened by wildfires, BEAR plans to: perform a statewide assessment to identify ideal pilot sites for community-based biofuel production facilities (Year-1); and, develop an implementation strategy leveraging local biomass, CSU- and JC-based TVET, and infrastructure resources to establish 10 pilots across the state (Year-2) - Build on pilot findings to create a roadmap for project expansion and institution scale-up (Year-3)

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Trio Renewable Gas Inc.	Native American Stewardship of a Sustainable Forest Fuels Reduction Model	Butte, Mendocino, Plumas	\$ 295,900	TRIO Renewable Gas Inc. and The Guidiville Rancheria of California (GRC), a federally recognized tribe, in association with Lawrence Berkeley National Laboratory (LBNL) will create a forest fuels removal contracting/reseller/consulting/training business, majority owned by GRC, to secure government contracts for forest fuels removal and motivate adoption of the model by those owning or managing western forest lands (the "GRC Solution"). The GRC Solution will enhance and deploy the TRIO waste-to-value platform with its feature set of mobility, throughput, modularity, project readiness, and construction quality.
Fabric Workshop	Novel utilization of undervalued California wood fiber in advanced, engineered wood products sourced from wildfire mitigation projects	Humboldt, Mendocino, Trinity	\$ 429,055	Fabric Workshop, a timber innovation and fabrication company working in collaboration with Arup, Hacker Architects, Holmes Structures, and Timberlab, will combine regenerative forestry with Industrial Construction to create advanced, timber-based building systems designed and sourced specifically to utilize the undervalued wood that Cal Fire needs off the landscape. To expedite California timber utilization and manufacturing by 2023, Fabric Workshop will address three key areas: (1) Finalize commercial viability and supply research; (2) Support R&D for California-sourced glulam and pine-based curtain wall; and (3) Produce prototypes for testing and certification.
University Corporation at Monterey Bay	CSUMB Students Internship Program with Cal Fire	Monterey	\$ 343,018	This proposed three-year Workforce Development project will partner the California State University Monterey Bay (CSUMB) with the CAL FIRE San Benito Monterey Unit to provide funding to create a one-year internship program with the CAL FIRE San Benito-Monterey Unit. CSUMB Students will have an opportunity to intern in a multitude of positions within the Unit. Depending on what academic course the student is pursuing they may be able to apply their internship for academic credit from the University.
California Mechatronics Center	FUEL-REDUCING ROBOTIC VEHICLE SYSTEM	Butte	\$ 499,997	The Center will build a Fuels Reduction "FRoomba", an autonomous "debris-gathering" forest-capable vehicle that systematically traverses a previously thinned area while loading up woody biomass. When full, it returns to an air curtain burner "dock" located in the center of the project area, where it simultaneously unloads into the burner at a controlled rate, and while docked, recharges itself from the energy extracted from the biomass, ready for the next gathering trip.
Napachar, LLC	Biochar: from Forest Management to Vineyards	Napa	\$ 500,000	Napachar will purchase and manufacture the equipment needed to scale up operations to treat 53 acres of Napa-area forest next winter, producing enough biochar to amend 80 acres of vineyard soil and offset 1,000 tons of CO2 emissions. Teamed with the Pacific Union College, who manages over 1,000 acres of Napa County forest, the biochar production model will be integrated into their existing forest management plan. A written commitment from Silver Oak wines assures purchase of the biochar at fair market value for use in their vineyards. At the end of this project in 2025, Napachar should be able to treat 212 acres of forest per year, producing enough biochar for 320 acres of vineyard and offsetting 4,000 tons of CO2 emissions.

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Placer County Department of Public Works	Cabin Creek Biomass Facility	Placer	\$ 2,000,000	The Cabin Creek project will consist of constructing a 2-megawatt biomass to energy facility on an existing green and solid waste processing site Eastern Regional Landfill (ERL) in the North Tahoe Region. This project will increase the local biomass capacity by 18,000 bone dry tons per year and provide renewable energy to local areas and county facilities. The project will utilize existing green waste produced at ERL supplied from forest service land and residential defensible space clearing to produce energy helping to reduce wildfire risk within the region.
Earth Foundries, Inc.	Carbonator Mobile Pyrolysis Business	Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma	\$ 783,300	The Earth Foundries' Carbonator Mobile Pyrolysis Business will to offer on-site forest waste disposal at scale which has a net-negative carbon footprint, reduces the cost of forest waste disposal and provides a beneficial product (biochar) that has follow on benefits in downstream applications. The CAL FIRE grant will provide supplemental funds to support the purchase of two TigerCat Carbonators and the working capital necessary to kickstart the business.
Alpenglow Timber LLC	Alpenglow Timber Sawmill Project	Nevada	\$ 2,000,000	The Alpenglow Timber Sawmill Project will establish a new 4.5 MMBF sawmill facility and wood energy system with the capacity to produce kiln-dried lumber and firewood, and to provide district heating to commercial and residential units. The facility will provide an outlet for forest material within one year, and immediately improve forest health and forest-supported communities and ecosystems. The proposed funding request is necessary to support the sawmill's capital infrastructure costs consisting of the facility's boiler, its automated infeed system, emissions controls and condenser, three packaged kilns, re-saw, stacker, and grinder, and the water storage tank.
Humboldt State University Sponsored Programs Foundation	Expanding California's fire management workforce through integrating education, training, and experience	Humboldt	\$ 492,563	In collaboration with federal, state, and local partners in Humboldt County and surrounding regions, Cal Poly Humboldt proposes to enhance workforce capacity in the state through three major efforts: (1) it will substantially increase training and experience opportunities for Cal Poly Humboldt fire students; (2) it will create a certified fire management education program for state and federal fire and fuel practitioners; (3) It will provide training and knowledge workshops for community members interested in conducting fuel treatments on private lands.
Unity Forests Products, Inc	Unity Forest Products Dry Kiln	Sutter	\$ 420,000	For this existing sawmill to increase its capacity for milling logs, including burned timber from wildfires, it is necessary to increase capacity for drying lumber. This project will construct a dry kiln which includes building, heating/spray system, fan system, vent system and computerized controls with a capacity of 30,000 to 40,000 bd ft of lumber per charge depending on length and size of lumber.

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Northstar Community Services District	Northstar Community Services District Biomass Energy System	Placer	\$ 2,000,000	Northstar Community Services District (NCSD) will construct a woody biomass district energy system. The project entails construction of a community-scale biomass energy system that will utilize local and regional hazardous forest biomass to generate heat for approximately fourteen large buildings, significantly reducing out of state methane gas demand. The project would serve to accelerate NCSD's fuels management and defensible space programs while improving their environmental footprint and reducing operating costs by creating a local use for otherwise non-merchantable material.
Resource Conservation District of Tehama County	California Timberlands Prescribed Fire Academy	Butte, Lassen, Plumas, Tehama	\$ 4,528,572	This multi-year training program will increase California's prescribed fire and wildfire management capacity, teaching foresters and wildland managers skills needed to safely and effectively manage a prescribed burning program, while burning up to 5,000 acres. Participants will receive hands-on training in all aspects of prescribed fire. This project will provide training to at least 155 students, host courses required for certification under the new California Burn Boss Program, and provide all students with opportunities to gain fireline leadership experience.
Reedley College	Wildfire and Prescribed Fire/Fuels Management Program Capacity Increase	Fresno	\$ 2,302,553	The Reedley College (RC) Wildland Fire Technology Program proposes to expand its Wildland Fire and Fuels Management program to train 160 new entry and mid-career wildland fire management workers and technicians over a 4-year period (2022-2026). Additionally, RC will create a new Prescribed Fire Training Academy which includes 3 new courses in Prescribed Fire/ Fuels Planning and Project Development and the development of 4 new Industry Certificates. The project will also build new strategic partnerships with regional and state wildland fire agencies to expand training opportunities in Fire Suppression, Prescribed Fire and Fuels Management.
The Nature Conservancy	Expanding Prescribed Fire Training Opportunities in California	Statewide	\$ 2,418,224	This project will increase the amount of prescribed fire training opportunities throughout California. It will leverage partnerships developed through The Nature Conservancy's Fire Learning Network and Indigenous Peoples Burning Network to build on the highly successful Prescribed Fire Training Exchange (TREX) model, which has already trained over 1,300 individuals since 2008 in California alone. This model is focused on cooperative burning, where individuals from federal and state agencies, non-governmental organizations, tribes, private landowners, students and interested citizens convene to plan and implement prescribed fire. Our project can directly support that workforce development by significantly expanding prescribed fire training opportunities across California.

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Forestry Educators Incorporated	Forestry Challenge	Statewide	\$ 454,000	The Forestry Challenge is a competitive event for high school students in technical forestry and current forestry issues. The goal of the Forestry Challenge is to provide high school students from California area an opportunity to increase their awareness of forestry knowledge and issues so they can better participate in forestry related processes as adults. This grant will support the students' and teachers' registration fees for 4 years, which should increase participation and eliminate financial barriers to participation.
Peterson Timber, Inc.	Northern Sierra Forest Health Business Development	Butte, Lassen, Plumas, Shasta, Tehama, Trinity, Yuba	\$ 65,000	Peterson Timber, Inc. will purchase a used tracked skidding machine (Caterpillar D6R XR with grapples), which would increase the pace and scale of multiple current and ongoing forest health projects. Purchasing this equipment will allow machine access to steeper ground where rubber-tired skidders cannot operate, so that thinning treatments can be completed on areas that would otherwise be left untreated. In addition to supporting the implementation of needed treatments, the woodchips that will be produced will be made available to multiple biomass facilities.
Arrowhead Enterprises, Inc. & AE Wood Products	Southern California Forestry and Wood Utilization Expansion Project	San Bernadino	\$ 500,000	The Southern California Forestry and Wood Utilization Expansion Project will research the feasibility of increasing the capacity and profitability of both Arrowhead Enterprises, Inc. AE Wood Products divisions by purchasing or leasing a tracked horizontal grinder, a firewood processor, and researching the feasibility of developing and erecting steel buildings on our commercial property allowing for more indoor product storage, work areas, and continued growth of our wood products business.
Force Energy Corporation	Tuolumne BioEnergy	Tuolumne	\$ 2,000,000	Force Energy Corporation (FEC) intends to develop a woody biomass pellet manufacturing facility on a 3.27 acre leased property in an industrial business park in Sonora, CA. Wood pellets are densified wood products produced from wood chips derived from the thousands of piles of biomass accumulating in the Stanislaus National Forest and Tuolumne County region. Tuolumne BioEnergy Inc. (TBI), the pellet enterprise, will utilize approximately 40,000 bone dry tons (BDT) of biomass annually to produce 30,000 tons of premium wood pellets.

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The Watershed Research and Training Center	North State All-Hands, All-Lands Prescribed Fire Workforce Development Partnership	Butte, Colusa, Del Norte, Glenn, Humboldt, Lake Lassen, Marin, Mendocino, Modoc, Napa, Nevada, Placer, Plumas, Shasta, Siskiyou, Sonoma, Tehama, Trinity, Yuba	\$ 1,292,762	The North State All-Hands, All-Lands Prescribed Fire Workforce Development Partnership (AHAL Partnership) will bring together sector-leading partners from academia, conservation, fuel and fire management businesses, and economic and workforce development specialists to leverage their relative strengths and align new and ongoing initiatives towards a comprehensive strategy expanding the size, quality and capabilities of the region's prescribed fire workforce.
New Growth Forest Management	New Growth Forest Management Cone Collection Team	Plumas	\$ 655,763	New Growth Forest Management is seeking financial support to start a Cone Collection Team to address the conifer seed deficit for post fire forest rehabilitation in areas of the Dixie Fire footprint within Plumas County on private lands. The NGFM CCT will be run by an RPF who will oversee all aspects of stand surveying, cone maturity monitoring, and harvesting.
California Renewable Carbon, LLC	California Renewable Carbon, LLC Woody Biomass Processing Project	Colusa	\$ 2,000,000	California Renewable Carbon (CRC) intends to build a state-of-the-art biocarbon production facility in Colusa County, California, with capacity to convert over 580,000 bone dry tons per year of woody biomass into biocarbon pellets, a direct replacement for fossil-based fuels. Potential sources for this biomass include forest-derived feedstock from forest management operations as well as orchard removals and prunings. This project provides an economically beneficial market for large quantities of woody feedstock materials that are currently contributing to forest fires or are disposed of through burning of commercial orchards.
Total # Applications = 52 Total Requested = \$ 59,961,392				