

CAL FIRE Business and Workforce Development Grant Applications -- 2024 Q1					Disclaimer: This roster includes all eligible and ineligible project proposals.
Project Type	Applicant	Project Name	County	Requested Funds	Project Description
Business Development	Anvil Builders Inc, DBA Atlas Sonoma Tree Surgery	Anvil Builders Inc / Atlas Sonoma Tree Surgery Feasibility Study For Improved Woody Biomass Management Using a Tigercat Carbonator	Lake Mendocino Napa Sonoma	\$ 107,349	This project will produce a comprehensive Feasibility Study for the purchase, siting and operations of a Tigercat Carbonator in Sonoma County. It builds on the results of Atlas Tree's 2023, CAL FIRE-funded technology assessment of 11 different biochar production/pyrolysis technologies. Based on this study Atlas wants to pursue the purchase a Carbonator to effectively manage its ongoing large volumes of woody biomass, primarily sourced from Sonoma County. SEC's team will produce a comprehensive study that will include all financial, economic, regulatory, and logistical factors that must be considered before investing in the purchase and operation of a Carbonator as well as the production, sales and distribution of biochar. Atlas and SEC will be supported by: TR Miles Technical Consultants, experts in biomass management operations and prime author of the recent technology assessment; TSS Consultants, air emissions permitting experts; AECOM, Inc., CEQA experts; and James Amonette, PhD, GHG emissions analyst.
Business Development	Aurora Bioenergy Consulting LLC	Aurora Revenue Enhancement Study	Statewide	\$ 300,000	Aurora Bioenergy Consulting intends to complete a study of certain potential revenue enhancements for biomass plants throughout the state of California. This will be a business R&D project.
Business Development	Arcitu AM LLC	Biomass Converted Upcycled Polymer Composite Wood Products Testing, Certification and Scale-up Manufacturing Feasibility	Placer San Francisco	\$ 499,399	California has two really big problems: Wildfires and Housing Affordability. We are working toward the establishment of a biomass conversion facility for sustainable biofiber wood composite building products. CalFire Grant funding enables the research and development effort to purchase equipment, test and certify these biofiber polymer composite materials and perform scale-up manufacturing feasibility. We are reimagining every part of the way we build and how we manage our forests. To do this, we must simplify building and reduce material costs while planning for resiliency. We convert forest biomass in the form of shredding and sawdust. This biomass is typically too small to be sent to lumber mills and we combine it with recycled plastics to make upcycled biofiber polymer composite building materials. We call these novel materials: Polygrade. We test and certify these materials and mechanical attachments with Intertek, a CalFire Approved Testing Laboratory. Finally, we conduct scale-up manufacturing feasibility.
Business Development	Loamist	Biomass Validator	Statewide	\$ 500,000	Loamist is a software company on a mission to increase utilization of waste biomass. Loamist is seeking a CAL FIRE grant to support the development of a track and trace software called Biomass Validator's purpose built for the biomass market and specifically built to simplify compliance with CAL FIRE's transportation subsidy program (as well as Federal Renewable Fuels Standard, California Low Carbon Fuels Standard, BioRAM and BioMAT).

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Business Development	Blue Mountain Electric Company, LLC	Blue Mountain Electric Company - Bioenergy Plant Development and Construction	Calaveras	\$ 3,000,000	Blue Mountain Electric Company (BMEC) is a shovel-ready 3MW biomass plant in Wilseyville, CA. BMEC will utilize forest biomass as feedstock to generate clean energy, displacing fossil fuel-based energy. BMEC produces syngas (including hydrogen) and biochar. BMEC will contribute to the pace and scale of forest fuels management by creating a destination and utility for forest fuels removed from the USFS Stanislaus Priority Landscape and other local forests. In addition to providing 3MW of clean energy, BMEC will provide CCWD with power for the pumps at its wastewater treatment plant; will install EV charging stations to service BMEC and CCWD fleets and the public; BMEC's biochar will be used by CCWD for filtration and odor control; CCWD will send biosolids to BMEC instead of trucking it to the Bay Area; and we will conduct a demonstration project to test the use of biochar in road surfaces.
Business Development	Gildo Nonini Inc	Business Development	Fresno	\$ 990,000	Our project intentions are to remove biomass off of the mountain and process it into a beneficial use product. The current roadmap for the biomass is to be piled on the mountain in order to be open air burned at an unknown later date. The transportation grant would allow us to bridge the economic gap between getting the wood that is currently on the upper portion of the Sierras and transporting it down to our facility that would be able to process it into various products.
Business Development	Ecological Solutions CA LLC	Business Development	Sonoma	\$ 10,003	Ecological Solutions CA LLC is an ecological based vegetation management and fuel reduction company is based in Sonoma County. We are a local small business primarily serving the Sonoma, Napa, and Lake County units. We have been advising on ecological practices for projects throughout the region during workshops for the community partnered with Fire Safe Sonoma, the Sonoma RCD, and the Sonoma County Forest Conservation Working group. We are seeking support to expand our equipment with the goal of reducing emissions through a new battery powered saw fleet, with solar generator, along with a dump trailer to enable us to transport chips to a local approved City Park for landscaping needs. We have 3 fuel reduction projects lined up for 2024 starting after the award date in which all of this equipment will be directly put to use. We will be providing 10K of our own funds as a match.
Business Development	Absolute Tree Service	Business Development Equipment Purchase	Madera	\$ 329,000	Purchase of Equipment: FAE Prime-Tech PT-175 Forestry Mulcher Mecalac 10MCR Excavator with FAE Forestry Mulching Head Diamond C FMAX212 Equipment Trailer

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Business Development	North Fork Lumber Company	California Sawmill Mass Timber Production R&D	Humboldt	\$ 492,500	Despite California's leading role in mass timber demand, the state lacks its own production, hindering wildfire mitigation efforts and rural economic growth. North Fork Lumber Company (NFLC) proposes research and development into dowel laminated timber (DLT) production, seeking the most efficient way to add value to their current product mix. Partnering with Holmes Engineering, UC Berkeley, and Flame Security International, NFLC will explore DLT applications, produce novel DLT panels for material testing, and refine production strategies. This R&D project will provide market, material and logistical data to inform NFLC's decision to establish the first California-based mass timber production facility alongside their sawmill. This research will target the utilization of low-value and low-grade lumber products from California forests in order to mitigate wildfire risks and build a more resilient future. By leveraging local expertise and public-private collaboration, NFLC strives to unlock California's full potential in sustainable mass timber production.
Business Development	University of California, Agriculture and Natural Resources	California Wood Products Innovation Campuses: A Replicable Model to Promote Bioeconomy Industry Clusters	Fresno San Bernadino	\$ 231,642	This project will conduct a feasibility study for site identification and develop a business plan for the "California Wood Product Innovation Campus" in Fresno County and San Bernardino County to serve as demonstration sites for forest biomass technologies and products. This project will build an industry-driven, replicable model to develop a strong regional bioeconomy industry cluster by providing technical assistance to companies, identifying and supporting growth of both biomass utilization companies and suppliers and service providers to those companies. These locations are considered high priority disadvantaged/low income and wildfire risk to forest ecosystem services areas by CalFire. This innovative, industry-driven, replicable business development program will catalyze a robust bioeconomy "supply chain" as the first step in facilitating expansion to other areas in California.

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Business Development	Camptonville Community Partnership	Camptonville Forest Biomass Business Center	Yuba	\$ 2,381,274	<p>Camptonville Community Partnership(CCP) is establishing a Forest Biomass Business Center (FBBC), a forest-sector business campus that will support forest restoration efforts, increase the pace of forest management, improve resilience, and reducing wildfire risk. The FBBC serve as a delivery point for forest biomass resulting from extensive, ongoing landscape-management activities, reduce the net costs of removing hazardous fuels, and create jobs to stimulate the local economy, using a circular economy business model. The project proposed for CAL FIRE support will expedite the FBBC site becoming operational by filling a critical gap in business development. Project funding request and deliverables focus on the infrastructure needs that will support all the co-located businesses. Infrastructure needs include road improvement and clearing and grading. Upon completion, the proposed project will immediately bring mobile Carbonizer under a partnership with Earth Foundries and PG&E and support the development of a 5MW bioenergy facility and small sawmill.</p>
Business Development	Lepage Company, Inc.	Carbonizer Mobile Pyrolysis to Advance Fuel Reduction & Biochar Utilization in Northern California	Tehama	\$ 403,376	<p>Lepage Company Inc. is requesting \$403,376.25 to procure a Tigercat 6040 Carbonizer, which is a mobile wood debris conversion system that produces biochar through pyrolysis. Employing the Carbonizer to reduce fuels and create biochar is a multi-solution biomass utilization approach. The Carbonizer will support forest-sector business development, in-woods fuel reduction operations, post-fire forest recovery efforts, employment opportunities, low-income communities, and restoring priority landscapes. Additionally, the biochar generated from the Carbonizer will support the local economy and promote healthy soils in forests and on agricultural lands. Lepage Company will use the Carbonizer to improve operational efficiency while reducing treatment costs, which will help advance the pace and scale of forest resilience efforts in Northern California.</p>

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Business Development	Falk Forestry, Inc.	Challenging Terrain & Adverse Weather Solution - Tigercat 180 Swing Yarder	Lake Sonoma Yuba	\$ 1,101,475	<p>Falk Forestry proposes the acquisition of a Tigercat 180 Swing Yarder, a masticator head, and a CAT527 Grapple Skidder to improve operational efficiency, safety, and environmental impacts of our logging, forest health and Carbonizer biomass processing operations.</p> <p>Increased Efficiency: The yarder has a higher production compared to ground-based methods, especially in adverse weather and across difficult terrain, resulting in reduced downtime of our felling and carbonizer crews, faster project completion and reduced costs.</p> <p>Enhanced Safety: The cable system eliminates the need for heavy machinery to operate on wet/muddy slopes, minimizing the risk of accidents and injuries to our crew.</p> <p>Environmental Impact: The yarder's minimal soil disturbance and maneuverability in challenging terrain protect sensitive ecological areas and minimize environmental damage.</p> <p>This yarder, masticator and Caterpillar, represent a significant investment in Falk's future and will enable us to contribute even more effectively to CalFire's mission to promote responsible and efficient forest management.</p>
Business Development	Collins	Chester Sawmill CoGen Facility Upgrade	Plumas	\$ 1,530,821	<p>This two-part project is to improve the design of the CoGen plant to allow it to run as intended. This upgrade will supply 5MW of green energy, 3MW of which can be exported to the grid. This project will add the necessary equipment and controls so that a constant steam demand will always exist which will allow the turbine to operate as designed. Part two of the project is updating the outdated electronics infrastructure.</p> <p>This will ensure worker safety, increase situational awareness during electrical system disturbances, replace equipment that is obsolete and unserviceable, and meet the requirements of the California Air Resources Board's Regulation for Reducing Greenhouse Gas Emissions from Gas-Insulated Equipment.</p>
Business Development	Collectron Energy LLC	Collectron Energy Auburn Energy Junction	Placer	\$ 6,595,088	<p>Bioenergy facility named Auburn Energy Junction (AEJ), utilizes biomass waste feedstock to produce agricultural and energy products. Co-located with the City of Auburn, CA wastewater treatment plant, Collectron will secure a 25 year land lease to construct and operate the facility. In addition to regional biomass feedstock sources the facility will use forest restoration byproducts and contribute to reduced wildfire risk via hazardous fuels removal. Facility will be designed to process 16,800 tons of dry biomass annually. Feedstock fed through the facility will be converted to salable commercial agriculture byproducts and renewable electricity. Annual output estimates: 6,216 US tons of organic biochar REGENiCHAR™, 50,000 gallons of organic biostimulant REGENiSYS™ and 6,300 MWh of carbon negative electricity. Facility will deliver an estimated 35,000 MT gCO2e annual emissions reduction. Collectron will create sixty (60) full time employees (FTE) equivalents during construction and 4-6 permanent FTE equivalents.</p>

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Business Development	Earth Foundries, Inc.	Deployment Kits for In-Forest Mobile Pyrolysis	Lake Yuba	\$ 359,219	<p>This grant facilitates the launch of two Tigercat Carbonizers in CCI-identified disadvantaged Lake and Yuba Counties, California, by providing matching funds for necessary ancillary project deployment equipment and some project salaries.</p> <ul style="list-style-type: none"> - The project supports processing unmerchantable forest material into biochar directly at the source, aligning with CAL FIRE's vision for a developing a robust forest economy. - This approach not only mitigates fire hazards by eliminating potential fuel but also offers a sustainable alternative to landfill disposal and open burning, significantly cutting emissions and supporting CARB's public health and air quality objectives. - The biochar output can serve various purposes, including improving agricultural productivity, aiding stormwater management, and supporting ecological restoration efforts, thereby enhancing soil quality, conserving water, and boosting crop yields in the community while sequestering carbon and reducing GHG emissions. - The project will support the hiring and training of CCI-identified priority population members.
Business Development	Shasta Biofuels LLC	Development of a Commercial Scale Waste Woody Biomass to RNG Biorefinery in Anderson, California	Shasta	\$ 1,695,500	<p>Devastating wildfires and increasing greenhouse gas emissions are two globally important and interrelated issues. Shasta plans to tackle both by building a biorefinery that will utilize substantial amounts of waste woody biomass ("WWB") to help reduce wildfires and produce low-carbon, renewable natural gas ("RNG") that will displace fossil natural gas. Shasta would draw 300,000 dry tons per year of WWB from forests in desperate need of thinning (most from sourced from Level 3-5 Priority Landscapes). That would help protect up to 750,000 forested acres and keep 375 million metric tonnes of CO2e in place in forest biomass. Shasta's carbon negative RNG and biochar products will reduce GHG emissions by over 300,000 metric tonnes compared with fossil fuels.</p>

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Business Development	Diversified Resources, Inc.	Diversified Resources, Inc. Processing Equipment for Increased Capacity and Expansion	Glenn Lassen Modoc Plumas	\$ 555,216	Diversified Resources, Inc. plans to purchase a timber harvesting machine that can process logs to incorporate into existing equipment. This equipment will be utilized on hazardous fuels and forest health-related projects, making a significant difference in the fight against wildfires and promoting forest health. The grant funding will cover 60% of the total cost. The company has been a stable employer in rural Northern California for over a decade. The new equipment will increase the amount of acres treated by 50% and assist with fuels reduction and fire prevention projects within Glenn, Modoc, Lassen, and Plumas counties. Diversified Resources, Inc. has completed forest health projects for organizations, including Glenn County, Pit River, and Feather River Conservation Districts, and Lassen and Plumas Fire Safe Councils. With the new equipment, the company can expand the types of projects they work on, thus increasing the pace and scale of forest health projects.
Business Development	Yosemite Clean Energy, LLC	Equipment and Feedstock Study for Yosemite Sierra	Tuolumne	\$ 978,250	Yosemite requests CAL FIRE Q1 2024 BWD funds to help fund the purchase of a disk chipper and the completion of a comprehensive feedstock study of the forested areas proximal to Tuolumne, California. Yosemite designs and builds wood waste biomass to green hydrogen biofuels plants and one of its plants will be located in Chinese Camp, Tuolumne County, California (Yosemite Sierra Plant). Constructing each plant requires significant private financial investment. CAL FIRE's investment in updated equipment (disk chipper) and a comprehensive feedstock study that will include an inventory based growth and yield volume and cost estimate over 30 years for both the conifer forests and oak woodlands will help Yosemite secure the remaining private investment funds necessary for construction. Additionally, the new chipper and the feedstock study will ensure the successful and efficient long-term planning and operation of the Yosemite Sierra Plant.
Business Development	Yosemite Clean Energy, LLC	Equipment to Improve Operational Efficiency of Woodyard for Yosemite Paradise	Butte	\$ 960,500	Yosemite Clean Energy, LLC (Yosemite) requests CAL FIRE BWD funds to help purchase a horizontal chipper/grinder and a loader for use providing biomass feedstock for its wood waste biomass to green hydrogen biofuels plants in Oroville, Butte County, California. CAL FIRE' investment in updated equipment will help ensure the successful and efficient long-term planning and operation of the plant which will help Yosemite secure the remaining private investment funds necessary for plant construction. Once operational, the plant will process 90,000+ bone dry tons of forest waste biomass each year through the management of up to 5,000 forest acres and it will create more than 55 jobs in the local area.

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Business Development	BurnBot, Inc.	Expanding Prescribed Fire Treatment with Low Emissions and Reduced Escape Risk	Contra Costa Los Angeles Monterey Orange Riverside San Benito San Bernardino San Diego Santa Cruz Statewide	\$ 499,724	BurnBot will undertake R&D testing with the goal of expanding prescribed burn conditions around fire safety and air quality permitting. The air quality testing will include working with California Air Quality Management Districts (AQMDs) and source testing companies to apply current Air District, CARB and EPA methods to a new protocol to test our mobile equipment in order to demonstrate emissions data. The fire safety testing will include field experiments with local CAL FIRE units and Fire Department's participation to test BurnBot's RX operations in high fire risk conditions. The testing will demonstrate to parties involved in burn approvals the data needed to allow BurnBot to operate beyond traditional conditions for which the regulations were written with open burning as the main method. The testing will not only expand BurnBot's business development, but will enable 10-40x more acreage for prescribed treatments, dramatically improving California's forests.
Business Development	Trihydro Corporation	Feasibility Analysis for Wood and Biomass Processing in the Central Coast	Monterey San Benito San Luis Obispo San Mateo Santa Barbara Santa Clara Santa Cruz Ventura	\$ 500,000	Conduct a Feasibility Analysis for the construction of a wood and biomass processing facility in the Central Coast area of California. The project will evaluate the highest and best uses for woody material generated in the area and incorporate various production methods for complete utilization or conversion of biomass material into useful products. The feasibility analysis will account for feedstock availability, transportation, processing and market factors. Equally important the feasibility analysis will address constraints in public policy, social acceptability, and economic viability. The feasibility analysis will address all woody material produced in the geographic area including; traditional timber, wildland fuels reduction projects, urban tree wood utilization, orchard material and recycled lumber. Findings from the feasibility analysis will be made available as a public document with the intent to share information, survey responses and trade secret information will be kept confidential.
Business Development	Plumas Wood Fiber	Feasibility Study for Processing Forest Biomass into Horticultural Potting Substrate	Plumas	\$ 59,705	This project requests partial funding for a Feasibility Study to be conducted by consultants to quantify all aspects of operation for a proposed facility in Plumas County that would process forest biomass into horticultural wood fiber potting substrate as a replacement for peat moss in potting mixtures. The project intent is to commercialize forest biomass by providing commercial greenhouse/nursery businesses with material they need for potting mixes, thus partly financing removal of the excess biomass from the forest. For this to be successful, three areas of operation must be carefully analyzed- feedstock supply and cost in the given geographic area, cost of facility development and operation, and market ability and willingness to accept the volumes of material produced. The Feasibility Study will attain these goals, providing a financial model basis for the operation, and provide for the next step of development- building a factory facility. Match funding provided.

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Business Development	Sierra Resource Management, Inc.	Feller Buncher for Expanding Forest-Thinning Operations	Tuolumne	\$ 443,325	Sierra Resource Management (SRM) is a logging operator based in Sonora, CA with more than three decades of experience thinning forested lands in the Central Sierra. SRM is requesting \$443,325.00 in assistance to purchase a new TL745D TimberPro feller buncher with a modern Tier 4 Final engine. This new machine will dramatically improve the crew's productivity, reduce emissions, and increase annual treatment area by approximately 300 acres per year. Furthermore, the new machine will enable SRM to harvest an additional 5,000 tons of biomass per operational season. The combined impact of a cleaner engine, improved fuel efficiency, and increased acres treated translates to a reduction of 15,835 tons of CO2e over the life of the machine. If awarded this grant, SRM's second feller buncher will be used to train one additional employee on the team and participate in heavy equipment operation training in Columbia College's Greater Sierra Forestry Corps program.
Business Development	Firewood Farms	Firewood Farms Business development infrastructure upgrade plan	San Mateo	\$ 239,591	The project would implement an infrastructure upgrade to our electrical supply, ensuring that our workshop and most of our timber processing and manufacturing processes would be powered and connected to the grid. Minimizing our reliance on fossil fuels. We would implement an office upgrade and expansion, that would allow us to implement new processes and manage productivity with greater efficiency. Along with 2 pieces of key critical equipment, one being an iDryPlus kiln, that would allow us to process and treat timber with much greater expediency, and a Genie Telescopic forklift, that would allow us to move equipment and materials more safely and with greater carrying capacity than we currently handle.
Business Development	Crook Logging, Inc.	Forestry Equipment Purchase	Calaveras Tuolumne	\$ 463,544	We know that California forests are over grown and that we must increase the acres treated. Awarding Crook Logging, Inc. this grant for new equipment purchases is away to work towards these goals. The watersheds that we are operating in are in crucial need for protection for both the watershed's health, and that of the communities that rely on healthy forests. In a normal season, our current operation can remove 540 loads of logs, 540 loads of chips, and treat 540 acres. The equipment that this grant would provide would increase our production to 900 loads of logs, 900 loads of chips, and 900 acres treated.

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Business Development	High Desert Lumber LLC	High Desert Lumber and Dowel Mill	Modoc	\$ 999,750	High Desert Lumber (HDL) will make improvements to its sawmill in Alturas CA which was purchased out of bankruptcy in 2022 and began limited operation in late 2023. The mill is focused on using damaged and otherwise wasted wood from overstocked forests in Modoc County. The project includes the purchase and installation of a drying kiln; purchase and installation of 3 sizes of dowel machines which will utilize currently wasted or burned tops and small trees; and an upgraded sprinkler system which is required before the mill can expand operations. The project will result in the treatment of 2,600 acres; processing of 16,500 BDT biomass; and 10 new well paid mill jobs.
Business Development	Pacific Ultrapower Chinese Station	High Hazard Fuel Utilization Project	Amador El Dorado Fresno Madera Tulare Tuolumne	\$ 3,000,000	Pacific Ultrapower Chinese Station (PUCS) is a renewable biomass fired power plant located in Tuolumne County that produces approximately 18 net-MW/hr of electricity, sold under long term contract to Southern California Edison. Under contract terms, PUCS must utilize 80% of its fuel (180,000 BDT) from CalFire-designated "High Hazard Zones (HHZ)." A CAL FIRE biomass transportation subsidy will support movement of 60,000 - 90,000 BDT of HHZ fuel from sustainable National Forest areas to the power plant. PUCS has identified several suppliers with available high hazard material, but transportation costs to the power plant make it cost prohibitive. Much of this material would otherwise be disposed of by open-air burning in the forest. PUCS offers a controlled, significant lower emissions, and safer alternative disposal method. PUCS also intends to purchase heavy equipment to more efficiently manage fuel receiving and storage, and retire equipment that does not meet CARB Tier 4 standards.
Business Development	Mutzner Trucking, Inc.	Looney Stewardship	Tuolumne	\$ 1,443,216	The Looney Stewardship is an ongoing forest management project in the Stanislaus National Forest. It is a collaborative effort between Tuolumne County and the Forest Service under their Master Stewardship Agreement. Mutzner Trucking was awarded the contract in 2020 with a completion date of October 2025. In addition to harvest operations there are additional work items including Clavey Bridge approach widening, chipping and hauling of non sawlog material, Hull Meadow small conifer removal, and harvest and stacking of non-sawlog material. Bridge approach work, chipping, and over 50 percent of nonsaw harvest and stacking is currently complete. A road reconstruction package for the immediate sale was included and has been completed. Mutzner Trucking began operations in June 2020 and have progressed annually with 2024 operations to start as soon as conditions allow.

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Business Development	Sierra Institute for Community and Environment	Mosaic Timber: Launching Mass Timber Manufacturing in California	Plumas	\$ 2,000,000	Sierra Institute is building Mosaic Mass Timber at its wood utilization campus to help rebuild the local wood utilization industry, put locals back to work, and build homes following the devastating Dixie Fire. The project leverages diverse funding support and contributes to post-Dixie Fire restoration in the high risk, northern Sierra/southern Cascades forests and responds to the challenge of rebuilding a local wood utilization industry and local economy in an impoverished area. The operation will improve local forests, create 22 permanent, family wage positions and be the first cross laminated timber manufacturing operation in California. The \$11-million community scale facility will use 237,000 cu/ft of forest biomass to produce 4.9 million board feet and support the local sawmill that received a recent CalFire grant. The wood utilization area includes the Plumas and Lassen National Forests and nearby land that ranges from 3 to 5 on the Priority Landscape scale.
Business Development	Norcal Bio, LLC	NCB Wood to Bioenergy	Shasta	\$ 198,539	Norcal Bio, LLC will build and operate a wood biomass to bioenergy fuels facility at 19195 Latona Road, Anderson, CA. The plant will process up to 76.8 BDT of wood per day. The wood feedstock will be processed into wood oil using a Pyrolysis reactor. The wood oil will be further cooled and separated for fractionation and hydrotreating to finish products. The plant will produce up to 1,057,770 gallons per year of diesel, 414,120 gallons per year of diesel blend stock, and 643,860 gallons per year of Lignin. The plant cost estimate is \$3,635,000. Commercial operation will start on or before March 15, 2026. The grant funding will be applied to the costs of the pre-feasibility study and feasibility study work. This work includes making samples for lab analysis to establish design parameters and product specifications for the proposed facility. Process engineering and frontend site engineering will also be completed.
Business Development	Tuolumne County	Next Generation Erosion Control: Wildfire Mitigation and Recovery	Tuolumne	\$ 500,000	The "Next Generation Erosion Control- Wildfire Mitigation and Recovery" project will grow a new market for Woodstraw erosion control mulch statewide in California, driving increased biomass utilization via new product line at Tuolumne Biomass.
Business Development	North Hills Recycling	NHR Wood Processing Expansion	Los Angeles	\$ 900,000	North Hills Recycling's request for this grant is for assistance with establishing, expanding, and training its workforce at its wood processing facility over the next 2-3 years. North Hills Recycling has noticed a steady rise in demand over the last year and a half and has started preparation for growth and expansion to meet those demands over the next 2-3 years. At North Hills Recycling our main focus is repurposing logs, tree trimmings, and yard waste. We receive materials from wood mills and local contractors and put it through a grinding and screening system and turn it into biomass fuel and soil amendments.

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Business Development	Premier Clearing Inc.	North State Forest Health and Fuels Reduction	El Dorado Lassen Madera Mariposa Mendocino Modoc Placer Plumas Shasta Siskiyou Tuolumne	\$ 350,000	Premier Clearing Inc. will purchase a tracked type leveling masticator (TimberPro 745D or similar) to increase productivity, maximize safety, and ensure sustainability for future forest health and development in the North State. The purchase of this masticator will increase productivity on adverse and steep terrain allowing mechanical fuel treatment to occur in locations that would otherwise be left untreated. This equipment would also allow safe fuel reduction operations within close proximity to structures located within the wildland urban interface (WUI). Finally, the steep slope and uneven terrain capabilities of this equipment would allow for site preparation for reforestation located on terrain previously unaccusable to standard mastication equipment.
Business Development	Old Durham Wood Inc.	Old Durham Wood Inc., Biomass Equipment for expansion and growth of existing business	Butte	\$ 2,874,518	Old Durham Wood Inc (ODW) is seeking funding for equipment purchase of a log loader, wood chipper, and screen to diversify operations, chipping logs for biomass fuel, compost, firewood and landscape fiber. Portable equipment will empower ODW to operate remotely on hazardous fuels and forest health projects across state, federal, and private lands. With 40 years of experience and 48 employees in fiber manufacturing, processing, and transportation, this scalable expansion allows ODW to venture into forest operations with a mobile setup, supported by a robust business infrastructure inclusive of 10 chip trucks and support equipment. Currently based in Durham, CA, ODW processes logs and fiber at its wood yard, generating biomass, compost, and other wood fiber products wholesale and retail. The requested grant will further propel ODW's commitment to forest restoration and expand its wood products infrastructure in Northern California.
Business Development	Plumas County Fire Safe Council	Plumas Fire Safe Council Biomass Energy and Green Waste Disposal with Firewood Processing	Plumas	\$ 1,769,730	The Plumas County Fire Safe Council seeks to fund a new biomass and green waste disposal facility to provide a much-needed additional outlet for 33,000 tons per year of under-utilized biomass from hazardous fuels reduction treatments and wildfire recovery within a 50-mile radius of the level 5 priority landscape of Quincy. The project will install a PGFirebox 300 air curtain incinerator with electricity generation, an electric firewood processor, and a dry kiln to produce on-site power, biochar, and subsidized kiln-dried firewood for underserved community members.

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Business Development	Taylor Energy	Preliminary Engineering of a Forest Waste to Green Hydrogen Gasification Facility Able to Deploy in a California High-Risk Fireshed	Riverside	\$ 500,000	This R&D Business Development Proposal is for the preliminary engineering of a forest waste to green hydrogen gasification facility, deployable in a California high-risk fireshed. At minimum economic scale, the plant will utilize 50 bone dry ton/day biomass waste to produce 3,000 kg/day hydrogen gas & 0.5 MW/day electric power generation, facilitating the clearing of 16,500 dry tons/year of non-merchantable woody feedstock from 825 acres of California forests annually. Activities in this proposed FEL-2 study include engineering, feedstock supply study, carbon life cycle analysis, market analysis, and updated business plan. Of note, this engineering study is located in Riverside and provides benefits to the local community, the Inland Empire and the San Bernardino Mountains areas identified by the state as priority populations & priority landscapes.
Business Development	CalPortland	Pyrolysis of wood-based materials for production of low GHG emission fuel for cement manufacturing	San Bernadino	\$ 500,000	This R&D based project intends to install a pyrolysis system at Oro Grande plant for processing wood biomass product to convert it into value-added products, to be used in Manufacturing of clinker. Pyrolysis work at small R&D scale will be implemented within operations. The product of pyrolysis will be used at a low-carbon fuel.
Business Development	Phoenix Biomass Energy, Inc.	R&D Project: Forest Biomass Gasification Syngas to Hydrogen Research	Calaveras Madera	\$ 500,000	Phoenix Biomass Energy is California's leader for community-scale biomass-to-energy, with two projects in North Fork (Madera County, 2MW), and Wilseyville (Calaveras County, 3MW). These plants produce clean electricity and biochar from local forest restoration biomass. We will research feasibility of smaller-scale, localized hydrogen production, determining optimal sizing, location, and configuration, including essential technology for cost-competitive production in close proximity to biomass sources. We will consider the impact of CO2 capture / sequestration and fuels transport on our projects. We will also look at other options (i.e., biofuels), and examine tradeoffs and benefits to Phoenix, the environment, and local communities. We will work with EQTEC (advanced gasification technology developer), Lawrence Livermore National Labs, and others to assess, test, and demonstrate available or emerging technologies at our plants. We will also investigate carbon capture and storage options.

CAL FIRE Business and Workforce Development Grant Applications -- 2024 Q1					Disclaimer: This roster includes all eligible and ineligible project proposals.
Project Type	Applicant	Project Name	County	Requested Funds	Project Description
Business Development	Mote	Research and Business Development 2024 Q1- Mote MS1	Amador Butte El Dorado Mariposa Nevada Placer Plumas Sacramento San Joaquin Stanislaus Sutter Tuolumne Yuba	\$ 1,000,000	Mote is requesting funding to further the development of the MS1 biomass and carbon removal (BiCRS) project in Northern California. This project (MS1) aims to construct a first-of-a-kind gasification to hydrogen facility that utilizes wood waste as the feedstock and stores the carbon from the process permanently underground geologically. CalFire previously awarded Mote funds from the Q1 2023 BWD grant to initiate this work and if awarded funds in 2024, the proposed project will continue development by achieving the following tasks 1) Project Management 2) Site Evaluation - further engineering diligence on final 3 sites selected during 2023 grant scope 3) Advancing facility design/engineering in preparation for FEED 4) Technology Review - identify and evaluate partners for process components of the facility 5) Feedstock Development and 6) Advance Community Engagement by implementing the plan drafted during 2023 grant.
Business Development	Sierra Forest Products	Sierra Forest Products Planer Mill Upgrade	Tulare	\$ 1,500,000	Sierra Forest Products ("SFP") intends to use the Business and Workforce Development Grant ("BWD Grant") to upgrade its planer. SFP plans to add five additional trays to its sorter, install an inline trimmer, and add a transverse grading system to improve its manufacturing efficiency. The planer upgrades would also reduce manufacturing costs and provide long-term workforce stability to on-site employees and forest-sector vendors. The planer upgrades entail industry-leading technology, and the upgrades would help SFP remain competitive with out-of-state businesses in the wood products industry. SFP plays an integral role in California and the Southern Sierras; therefore, BWD Grant funds would help SFP withstand market volatility and rising external and internal labor costs.
Business Development	Resource Conservation District of Greater San Diego County	Southern California Reforestation Center	San Diego	\$ 999,768	This project will develop the infrastructure for a Reforestation Center that serves to expand the accessibility of native conifers and hardwoods to reforest San Diego County communities on federal, state, tribal, and private lands. The Reforestation Center will provide a new dedicated nursery space with a 20,000 sqft flat retractable-roof greenhouse with an initial annual production goal of 280,000 conifer seedlings and 10,000 hardwood seedlings. An annual Cone Camp with curricular support from American Forests will educate local cone volunteers on proper surveying techniques while actively logging cone data inventory in the Survey123 app for CALFIRE's collection consideration. The Resource Conservation District of Greater San Diego County will facilitate communication with private property owners to grant access to these trees and a percentage of processed seeds will be sent back to the Reforestation Center nursery managed by Lumbercycle staff for local reforestation projects.

CAL FIRE Business and Workforce Development Grant Applications -- 2024 Q1					Disclaimer: This roster includes all eligible and ineligible project proposals.
Project Type	Applicant	Project Name	County	Requested Funds	Project Description
Business Development	Left Coast Land Clearing	Steep-Slope Tethering Unit	Tuolumne	\$ 310,436	This project will purchase a steep-slope tethering system to be used in conjunction with a feller-buncher based masticator. Left Coast Land Clearing currently has approximately 1,000 acres of fuel reduction projects under contract, with multiple areas that can utilize this technology immediately. Furthermore, the Stanislaus National Forest NEPA analysis for the landscape based Social and Ecological Resilience Across the Landscape Project (SERAL) allows for steep-slope treatment on projects when proposed. This grant funding will purchase the tethering unit which will consist of an excavator with cable, telematics, and all associated equipment to assist the feller-buncher in steep-slope operations. This piece of equipment will enable Left Coast to more quickly and effectively treat steep ground on fuel-reduction/forest health projects throughout the Sierra Nevada region - increasing the pace of treatment in fire prone areas.
Business Development	Loamist	SUDO: Sustainable Utilization of Diverse Organic-Resources	Statewide	\$ 500,000	The SUDO project aims to revolutionize biomass utilization in California by addressing the dual challenges of insufficient biomass utilization facilities and the high costs associated with biomass transportation. It seeks to create an innovative financial mechanism that leverages private capital alongside state funds to increase the mobilization and utilization of waste biomass.
Business Development	BurnBot, Inc.	Tech-Forward Fuels Reduction Workforce Training Center	Amador El Dorado	\$ 897,414	BurnBot will create a tech-forward training program for fuels treatment with a focus on advanced forestry technology. BurnBot needs training for current and incoming employees in order to have qualified candidates for the upcoming projects we have in our pipeline. The training will include Single Resource Boss courses for Firing Boss, Engine Boss and Heavy Equipment Boss. It will also include CDL A licensing, and custom remote-operated mastication classes and advanced drone GIS mapping courses. BurnBot and its training program will showcase how technology can propel California toward its goal with safer, cleaner, more efficient methods for fuels treatment. The training center will be based in Placerville, CA near low-income and disadvantaged communities and we will strive to hire and train locally as well as bring existing employees into the local community.
Business Development	Thompson Land Management, LLC.	Thompson Land Management Equipment for Increased Capacity for Forest Health and Fire Prevention	Butte Colusa El Dorado Glenn Lassen Mendocino Modoc Placer Plumas Shasta Siskiyou Sutter Tehama Trinity	\$ 1,446,149	Thompson Land Management is requesting funds to add equipment to their operation. Funds will be used to purchase two TimberPro TL745D Feller Bunchers and four attachments for each machine. The attachments are FAE Mastication Heads, Rotobec Grapples, Quadco Disc Saws, and TimberPro Bar Saws. This will increase the capacity of TLM by providing more biomass/mastication productivity and will allow for increased cut/skid/deck and logging capabilities. The equipment will be utilized on hazardous fuels and forest health projects including work in high priority WUI's. Thompson Land Management is a reputable and expanding business in Northern California and this is a key opportunity for TLM to increase capacity. The equipment will increase the number of acres treated from 2,500 to 5,000 annually, number of people employed from 7 to 9, and assist with fuels reduction and fire prevention projects within more than a dozen counties which makes this the choice for TLM.

CAL FIRE Business and Workforce Development Grant Applications -- 2024 Q1					Disclaimer: This roster includes all eligible and ineligible project proposals.
Project Type	Applicant	Project Name	County	Requested Funds	Project Description
Business Development	Left Coast Land Clearing	Tigercat Feller-Buncher	Tuolumne	\$ 463,448	This application is for funding assistance in the purchase of a new Tigercat LX830E feller-buncher and associated masticating and cutting heads. This machine will have acres to treat as soon as delivery can take place, as Left Coast Land Clearing has approximately 1,000 acres of fuel reduction currently under contract. This funding request is meant to help the company increase its productive capacity and has the additional benefit of providing one additional living-wage operator job. Please note: This is a duplicate application due to the budget overstating total project cost on the initial application.
Business Development	Left Coast Land Clearing	Tigercat Feller-Buncher with Mastication and Cutting Heads	Tuolumne	\$ 926,896	This application is for funding assistance in the purchase of a new Tigercat LX830E feller-buncher and associated masticating and cutting heads. This machine will have acres to treat as soon as delivery can take place, as Left Coast Land Clearing has approximately 1,000 acres of fuel reduction currently under contract. This funding request is meant to help the company increase its productive capacity and has the additional benefit of providing one additional living-wage operator job.
Business Development	CalPortland	Utilizing cement stack gas in high CO2 atmosphere to promote native plant growth and decrease GHG emissions	Kern	\$ 500,000	The project will implement utilization of CO2 from cement manufacturing process for increased growth of seedlings and saplings of native California plants in greenhouse environment. The plants will be transplanted to our quarry or other locations.
Business Development	Raging Creek Holding LLC	Vertically Integrated Wood Manufacturing Pilot	Humboldt	\$ 367,555	Raging Creek, a non-industrial private forest (NIPF) landowner proposes to construct an on-site manufacturing facility and purchase equipment to process and manufacture currently non-utilized wood products. The facility will have a footprint of 3,395 square-feet including 5,000 cubic-feet of climate-controlled storage. The equipment purchased using funds consist of two-2,000 board foot vacuum kilns, a dual surface planer, wrapping machine, climate-control units, and generator. This vertically integrated timber manufacturing operation will work closely with non-profit organization Six Rivers Initiative to offer as a solution for the 40+ other financially stressed NIPF family-owners in the region to process currently non-utilized wood products and support the local sustainable forestry economy. Jobs will be created, educational opportunities through Cal Poly Humboldt and other local organizations will be available, and with financial documentation, there is a probability of commercial debt financing.

CAL FIRE Business and Workforce Development Grant Applications -- 2024 Q1					Disclaimer: This roster includes all eligible and ineligible project proposals.
Project Type	Applicant	Project Name	County	Requested Funds	Project Description
Business Development	Walker Industries Inc	Walker Industries Log Truck	Inyo Mono	\$ 55,000	Walker Industries Inc is a small, family-owned heavy construction, engineering, and forestry company located in the Eastern Sierra serving Mono and Inyo Counties. We utilize heavy equipment and manual labor to complete many projects involving land clearing, fuels reduction, site work, land grading, and underground utilities installation on both private and public lands. We are seeking a grant to aid in the purchase of a dedicated, short log truck with a self loading grapple to efficiently transport saw logs and biomass and provide a much needed service to the local area. The use of a self-loading log truck eliminates the need for ancillary equipment for loading and unloading logs and reduces the amount of trips needed to get the logs to a destination. Also such a piece of equipment helps to increase the efficiency and operating capacity of the newly created Eastside Mill & Lumber Co located in Mammoth Lakes.
Business Development	Warner Enterprises, Inc.	Warner Enterprises, Inc. Biomass Project	Shasta	\$ 1,319,162	Warner Enterprises, Inc. (WEI) is an existing forest management company in Redding, Shasta County, with over 45 years of experience. WEI is establishing a wood sorting and storage yard in Anderson, Shasta County, to provide a reliable supply of feedstock to existing and emerging bioenergy and biofuels facilities in the region. WEI is requesting a tracked horizontal grinder in support of expanding its forestry operations and to increase the volume of trees and biomass processed on National Forest System, State, and private lands. The grinder will also process whole cull logs stored at the Anderson yard when in-woods operations pause due to winter weather or other reasons (e.g., fire, limited operating periods), maximizing grinder operating days and feedstock production. Operational efficiencies of the equipment and additional grinder operating days will achieve 108,000BDT/yr processed into feedstock (7 times more than existing), and facilitate forest restoration on 5,000 acres/yr.
Business Development	CalPortland	Wood chip processing facility to supply bio-fuel for manufacturing of low-CO2 cement	Kern	\$ 1,000,000	This project will establish a wood processing facility to process wood products for use in manufacturing of low-carbon Portland cement at CalPortland's Oro Grande and Mojave plants. This will enable significant utilization of the product with significant environmental impact, as described in our application documents.

CAL FIRE Business and Workforce Development Grant Applications -- 2024 Q1					Disclaimer: This roster includes all eligible and ineligible project proposals.
Project Type	Applicant	Project Name	County	Requested Funds	Project Description
Workforce Development	Fire Safe Council of Nevada County	24-BWD-Q1-NEU-FSCNC	Nevada Placer Sierra	\$ 3,500,764	<p>1. Promoting sustainable forest management through Workforce Development training, developing year-round Green Waste collection site/s, Wood Product milling services, Firewood program, and Bioenergy/Biomass Utilization through an on-site Carbonator Wood Debris Conversion system. 2. Workforce Development: training/Education improving the skills and knowledge of forest management professionals in sustainable forest, Bioenergy/Biomass ecosystem management, plus wildfire prevention and forest restoration practices through workshops, seminars, online courses, and field instruction training.</p> <p>3. Outreach/Education: Outreach/Education programs Promoting sustainable forest management practices and Biomass/Bioenergy Utilization by targeting communities, policymakers, and industry stakeholders through workshops, webinars, and educational materials.</p> <p>4. Bioenergy/Biomass: Develop and implement year-round Green Waste collection, Firewood program, on-site milling Wood Products milling, and Bioenergy/Biomass Utilization as renewable resources through Biochar produced via a Carbonator Wood Debris Conversion system, aligned with sustainable forest management practices. 5. Monitoring: Monitoring and evaluation of Green Waste collection, number of professionals trained, Bioenergy/Biomass Utilization, Firewood program, and reduction in greenhouse gas emissions.</p>
Workforce Development	Cal Poly Humboldt SPONSORED Programs Foundation	A New Masters Program for a Workforce Skilled in Contemporary Forest Challenges	Statewide	\$ 716,628	<p>Our project expedites the training of skilled forestry professionals by establishing in perpetuity a new Cal Poly Humboldt forestry master's program. The program will recruit students from a new and diverse pool of California State University (CSU) science majors, and graduate 15-20 forestry professionals each year (258 over the next 15 years). Project activities and deliverables will include: (1) a recruitment program that targets CSU graduates from a variety of science majors and provides early knowledge and skills training for transition to the forestry master's program, (2) job program for economically disadvantaged students, (3) professional experience working on contemporary forestry challenges, and (4) mentorship, job placement support, and progress towards becoming a registered professional forester.</p>

CAL FIRE Business and Workforce Development Grant Applications -- 2024 Q1					Disclaimer: This roster includes all eligible and ineligible project proposals.
Project Type	Applicant	Project Name	County	Requested Funds	Project Description
Workforce Development	Alameda County Fire Department	Alameda County Fuels Crew	Alameda	\$ 2,530,963	<p>The Alameda County Fire Department would like to submit for the 2024 Q1 Workforce Development grant to continue staffing for our newly developed Hand Crew 8. Through analysis we have found that Alameda County is in need of a fuels mitigation solution due to years of neglect in fuels projects. The ACFD has staffed and developed the current Crew from the ground up, however it is currently grant funded and without assistance the crew faces fiscal shortcomings as soon as 2025. We are requesting the State funded workforce development grant funding for wages and benefits to keep the crew working as we figure out long term sustainability.</p> <p>The program has created year-round jobs for 10-15 local community members. Working full time 40-hours a week. It has been very successful on the fuel's mitigation projects throughout 2023/2024. As well as being available for fire response in Alameda, and surrounding counties.</p>
Workforce Development	University of California Berkeley	Berkeley Wood Lab / Economic and technical evaluation of moderate-size veneer production operating in California	Alameda Contra Costa	\$ 500,000	<p>The Berkeley Wood Lab (co-directed by PIs Assistant Professors of Cooperative Extension Paul Mayencourt and Daniel Sanchez) is currently installing a spindleless veneer lathe line on the campus of the University of California Berkeley. This research will demonstrate the engineering feasibility and potential use of this new technology to process undervalued forest restoration by-products into high-added-value wood products. This grant proposal would augment the current research effort to provide an economic feasibility and product evaluation analysis to implement decentralized small to moderate-scale veneer lines across California near the fiber sources.</p> <p>No research has been conducted in California's specific context using California tree species, workforce, and economy. We address this knowledge gap by hiring two researchers: 1) evaluate the economic feasibility of the implementation of small to moderate-size veneer lines, 2) develop product lines and demonstrations from locally produced veneers that require low initial investments, such as LVL, plywood, or glulam.</p>
Workforce Development	California Forestry Alliance	Burn Crew Training: Existing Pile Reduction and Additional Fuel Reduction for Yosemite National Park	Mariposa	\$ 295,804	<p>Yosemite National Park has over 5,000 existing machine and hand piles throughout NPS land. Many of them are easily accessible by truck without traffic control and can be processed and utilized as wood products instead of burned. California Forestry Alliance's proposed Existing Pile Reduction and Additional Fuel Reduction for Yosemite National Park project plans to help reduce NPS pile count in three ways: 1) Chip and Haul easily accessible piles to Pacific Ultrapower Chinese Station; 2) Provide NPS Historic Building Preservation with logs for milling onsite; 3) Train and equip a group of 20 personnel from local, disadvantaged communities to burn existing piles that cannot easily be processed and utilized as wood products.</p> <p>Additionally, this project aims to continue developing the Wildland Urban Interface by expanding existing fuel break / fuel reduction projects in Foresta and Hodgdon.</p>

CAL FIRE Business and Workforce Development Grant Applications -- 2024 Q1					Disclaimer: This roster includes all eligible and ineligible project proposals.
Project Type	Applicant	Project Name	County	Requested Funds	Project Description
Workforce Development	Circuit Rider Community Services	Circuit Rider Workforce Development Project	Sonoma	\$ 747,845	Circuit Rider Community Services (Circuit Rider) proposes to provide training in ecologically-sound forestry fire fuels reduction practices to 30 participants. Circuit Rider will conduct three 12-week training courses over the project period. Each 12-week course will train a cohort of 10 young people in sustainable forestry practices, with a focus on fire fuels management. Specifically, training and certification will be provided in: CPR and First Aid; OSHA 10; Best chainsaw practices; Safe wood chipper operation; Flagger/traffic control training; Ecological Concepts, Ecosystem Components, Environmental Laws, Regulatory and Permitting Structure, Federal Resource Agencies, State Resource Agencies, Workers Role in Compliance, Protected Resources; Forestry/Forest Health/Arborist training; Prescribed fire/conservation burn (including burn unit prep); and Prescribed Grazing. Participants will then put their training into practice by performing project work in California State Parks.
Workforce Development	College of the Redwoods	College of the Redwoods Klamath-Trinity (KT) Campus Forestry Field School Pilot	Humboldt	\$ 307,210	College of the Redwoods (CR) Klamath-Trinity (KT) Pilot Forestry Field School will provide a 1-year Forestry and Natural Resourced (FNR) certificate program at the CR KT and Hoopa Valley High School campus on the Hoopa Valley Indian Reservation. The field school will introduce skills and opportunities in FNR to high school youth. This program would serve as an intermediary between exploring an interest in a career and being prepared for entry level field positions. A dual-enrollment Introduction to FNR course will be taught at the high school through a traditional ecological knowledge lens. Students could enter the workforce more prepared after the program and could be motivated to continue their degree at CR or transfer to Cal Poly Humboldt. The grant would also support the existing CR FNR program's ability to award certificates and AS degrees at the college by ensuring equitable and safe transportation for high quality field training.
Workforce Development	Conservation Corps North Bay	Forest Improvement, Resilience and Employment (F.I.R.E.) Bootcamp	Marin Napa Sonoma	\$ 474,401	The F.I.R.E. Bootcamp by Conservation Corps North Bay (CCNB) aims to empower young adults aged 18-30 in the North Bay region, particularly from underserved communities, with essential forestry and fire resilience skills. This innovative program, seeking funding to train 64 participants across 8 cohorts over 24 months, offers hands-on experience in CPR/First Aid, sawyer skills, chipper operation, and pile burning techniques. Designed to address workforce gaps in environmental conservation, it provides up to 96 hours of training per participant, leading to certifications and a pathway to employment in the sector. The initiative not only enhances community safety and ecosystem health but also supports personal growth and leadership development among participants, preparing them for meaningful careers in wildfire prevention and land stewardship. By focusing on both skill development and certification, the F.I.R.E. Bootcamp represents a comprehensive approach to workforce development in the environmental field.

CAL FIRE Business and Workforce Development Grant Applications -- 2024 Q1					Disclaimer: This roster includes all eligible and ineligible project proposals.
Project Type	Applicant	Project Name	County	Requested Funds	Project Description
Workforce Development	California Society of American Foresters	Forestry Institute for Teachers	El Dorado Humboldt Los Angeles Mendocino Shasta Tuolumne	\$ 371,803	<p>This grant would support two years of Forestry Institute for Teachers (FIT) Programming across California. It would cover all programmatic costs to implement four FIT sessions plus a fifth FIT-Focus session. FIT is a field-based professional learning program for California's PreK-12 educators. FIT equips participants with the knowledge, skills and tools to teach about the intricate relationships between forest ecology and resource management. Participants examine how forest ecosystems and their management impact the needs and health of all California communities.</p> <p>This grant would also support an Education Coordinator position at FIT's parent organization, the Society of American Foresters. The key roles of this position would be to act as the liaison between Cal SAF and the UC Cooperative Extension agents helping to run FIT sessions in their communities, as well as identifying and developing funding opportunities to ensure the continued delivery of FIT programming in perpetuity.</p>
Workforce Development	BreadFish Fire & Rescue	Pathway to Employment Wildland Fire & Urban-Interface Forestry Academy	Riverside	\$ 1,516,026	<p>Pathway to Employment Wildland Fire & Urban-Interface Forestry Academy will provide 6 training Academies in fire suppression and forest fuel management for 110 students over two years. 4 Basic and 2 Advanced Academies. During the Basic Academy students will receive 10 certificates, (6) National Wildfire Coordinating Group and (4) Federal Emergency Management Agency certificates each, for a collective total of 800 nationally recognized certificates.</p> <p>The target group to attend the training program are underserved community members who are experiencing an economic, social, or educational barrier. Former California Conservation Corps members who have timed out of the CCC program, military Veterans, and the formerly incarcerated.</p> <p>To diversify the path to leadership within the forestry/fire service, 30 of the most motivated students will be selected to attend the Advanced FireFighter 1 & Ignition Operations Training Academy. This brings the total to 890 professional certificates earned by 110 students over 6 training Academies.</p>
Workforce Development	Maidu Summit Consortium	Pathways to Progress: Maidu Workforce Development Program	Plumas	\$ 1,113,944	<p>Our "Pathways to Progress: Maidu Workforce Development Program" seeks to empower the Mountain Maidu community through training in Wildland Chainsaw operation, Cultural Burning, Split Rail crafting, and Invasive Species Management. This initiative, supported by grant funding, aims to restore ancestral lands, promote sustainable practices, and provide job opportunities for dislocated workers.</p> <p>Collaborating with local agencies, we plan to engage in sustainable forestry and land management projects, fostering economic and environmental benefits while preserving cultural heritage. By equipping participants with new skills and creating job placements, our program will build a resilient and self-sustaining community. Through these partnerships, we are committed to creating a lasting and positive impact on the Maidu Community.</p>

CAL FIRE Business and Workforce Development Grant Applications -- 2024 Q1					Disclaimer: This roster includes all eligible and ineligible project proposals.
Project Type	Applicant	Project Name	County	Requested Funds	Project Description
Workforce Development	UC Cooperative Extensions	Professional Foresters Reference Guide	Statewide	\$ 260,907	The goal of the Reference Guide is to have a standardized document that all wishing to become an RPF will have access to the knowledge, skills and information needed rather than relying on "who you know" or whatever their educational and experience background might be. It should be clear that the Reference Guide does not seek to replace the required 7 years of combined education and applied experience, but rather works in conjunction with the education and experience by giving individuals a quick reference they can refer to when questions arise. UCCE Advisors see the Reference Guide as a resource that can support existing training efforts as well.
Workforce Development	California Local Conservation Corps Foundation	Statewide Local Corps Training, Resiliency and Job Placement	Statewide	\$ 3,410,386	This funding would support training and job placement for 12 of the Local Conservation Corps in California from Sacramento to San Diego and several counties in between. The project would include Basic S-212 chainsaw training, wildland fire training sessions (certifications in I-100, S-1 30, L-180, S190) and advanced S-212 training for 12 Corps during the 2 year program. Fire Training will be provided by Working On Fire. Training would be available for Corpsmembers and supervisors (Advanced S-212 train the trainer training). One centralized Training Manager 12 Corps in the state. Deliverables include: training of 340 Corpsmembers, 4 training courses for supervisors (40 supervisors trained), train the trainer models set up at 12 Corps and job placement in fire jobs for 50% trained. Additionally, we have a goal of 20% of Corpsmembers trained being female Corpsmembers, supporting even further underrepresented people in fire jobs.
Workforce Development	Mountain Valley Unified School District	Timberjacks Forest Products Pathway	Trinity	\$ 638,610	MVUSD has a thriving CTE program and is looking to expand it to include Forestry Natural Resources, Equipment Operation and Wood Products and Processing. The first goal of this project is to create a small scale industrial sawmilling operation that will serve as a platform to create and promote career interest in the logging and natural resources industry within our community. Our second goal is to train students in the various aspects of operating a small scale sawmilling business and provide a path direct to the workforce and or community college. Students will be dual enrolled with Shasta College in several courses directly related to the logging and natural resource industry and will be given a direct link to enter their certificate and degree programs. Our final goal is to demonstrate sustainability by producing premium forest products with timber that is unfit for larger operations and or markets.

CAL FIRE Business and Workforce Development Grant Applications -- 2024 Q1					Disclaimer: This roster includes all eligible and ineligible project proposals.
Project Type	Applicant	Project Name	County	Requested Funds	Project Description
Workforce Development	Sonoma Ecology Center	Training Disadvantaged Workers Using Flame-Cap Kilns and Conservation Burns to Reduce Wildfire Risks and Create Biochar	Sonoma	\$ 1,015,958	This project will train 212 individuals from underserved communities to use two effective low-cost, low-tech, wildfire fuel reduction techniques that reduce emissions and don't require transport of woody material. Trainees will learn to operate flame-cap kilns to eliminate woody biomass with minimal emissions, and also the conservation burn technique to reduce smoke pollution. Both methods create biochar and save carbon. Bilingual trainings led by Sonoma Ecology Center—an experienced biochar expert—will work with three respected training partners serving the North Bay, all focused on uplifting a disadvantaged workforce: Circuit Rider, Conservation Corps North Bay, and North Bay Jobs with Justice/Resilience Works. The project lays the groundwork for future statewide training through organizations including veterans programs and Hispanic Chambers of Commerce.
Workforce Development	Mid Klamath Watershed Council	Western Klamath Prescribed Fire Workforce Development Project	Humboldt Siskiyou	\$ 951,170	This project will build collaborative prescribed fire, fuels, and forestry apprenticeship programs to serve local, Tribal, NGO, state and federal partners' identified workforce needs. Prescribed fire apprentice program members will spend 2-3 months burning with TNC-led crews on private, state and federal lands around the country when they aren't burning here, building skills and qualifications to bring back to California. Tribal partners will provide federally qualified Tribal firefighters to both mentor these apprentices and gain valuable experience burning with them in various vegetation types nationally and locally. Prescribed fire and forestry programs and trainings will be offered to high school and college age students. A part-time fuels workforce development crew will provide pathways for local community members to gain both technical skills and resources to join local, Tribal, state and federal fuels and forestry crews. Required screenings and clearances for staff to work in schools will also increase workforce capacity.
Workforce Development	Sierra Business Council	Wildfire Resilience Task Force - Workforce Development Working Group	Statewide	\$ 161,884	This project supports the convening of a Workforce Development Working Group at the California Wildfire Resilience and Forest Management Task Force with a charge to develop a set of workforce strategies for incorporation into the 2024 California Wildfire and Forest Resilience Action Plan. The Working Group is composed of a broad and diverse set of private business, industry, academic, tribal, community, and workforce agency representatives. The Working Group will commission independent research and analysis to identify workforce needs and gaps, identify job creation potential, and project the economic and social benefits of implementing the 2024 Action Plan. The strategies developed will comprise a roadmap for expanding workforce development and training to achieve California's wildfire resilience goals.
Total Requested				\$ 70,562,383	