

Summaries of the FY 24-25 Pollution Prevention Grant Selections

Selectees of the \$9.3 Million [Pollution Prevention \(P2\) Grant Funded by the Bipartisan Infrastructure Law \(BIL\)](#)

[University of Massachusetts Amherst](#)
[University of Massachusetts Boston](#)
[University of Massachusetts Lowell](#)
[University of Southern Maine](#)
[New York State Department of Environmental Conservation](#)
[Rowan University](#)
[Virginia Department of Environmental Quality](#)
[University of Maryland](#)
[University of North Carolina at Chapel Hill](#)
[University of South Florida](#)
[University of Alabama](#)
[University of Louisville](#)
[Georgia Institute of Technology](#)
[Central Michigan University](#)
[University of Illinois](#)
[University of Minnesota](#)
[University of Texas at Arlington](#)
[Louisiana State University](#)
[Kansas State University](#)
[University of Northern Iowa](#)
[Missouri University of Science and Technology](#)
[Missouri State University](#)
[Montana State University](#)
[University of Utah](#)
[California Air Resources Board](#)
[University of Nevada, Reno](#)
[Washington State Department of Ecology](#)
[Portland State University](#)
[Knik Tribe](#)

Region 1 Selectees:

\$349,363 to University of Massachusetts Amherst

The University of Massachusetts Amherst will provide technical assistance to the beverage manufacturing industry in the southern New England states of Massachusetts, Connecticut, and Rhode Island to reduce energy, water, and toxic chemical use, and waste generation. Assistance will include site visits to production facilities to provide specific P2 recommendations, followed by ongoing implementation support.

\$350,000 to University of Massachusetts Boston

University of Massachusetts Boston will provide technical assistance to craft beverage manufacturers, including those in communities with environmental justice concerns. The project will focus on reducing toxic cleaners and sanitizers, energy and water usage, and single-use packaging. The project will also train business students to use sustainability benchmarking tools that identify source reduction opportunities and help businesses achieve environmental and business benefits.

\$349,899 to University of Massachusetts Lowell

New developments in vapor degreasing technology have made safer alternatives to trichloroethylene (TCE) possible. The Toxics Use Reduction Institute (TURI) at the University of Massachusetts Lowell will establish a Vacuum Vapor Degreasing Hub to identify, optimize, and validate safer alternatives, and to train potential users. In addition to evaluation of vacuum vapor degreasing, TURI will conduct research into safer solvent alternatives for TCE.

\$350,000 to University of Southern Maine

The University of Southern Maine's New England Environmental Finance Center (NEEFC) will provide technical assistance to craft beverage manufacturers in Maine and Vermont. This technical assistance will include guidance for reduction in chemical use, assessments of in-house chemicals for toxicity, and recommendations for transitioning to less hazardous packaging and circular economy solutions.

Region 2 Selectees:

\$253,995 to New York State Department of Environmental Conservation

New York State Department of Environmental Conservation (NYSDEC) will partner with the New York State Pollution Prevention Institute at the Rochester Institute of Technology to provide technical assistance to chemical manufacturing, processing, and formulation businesses. Using EPA's Toxics Release Inventory, NYSDEC has identified businesses releasing toxic chemicals (e.g., xylene, toluene, methanol, heavy metals, nitrates) and will focus on green chemistry alternatives and training workers.

\$349,979 to Rowan University

Rowan University has identified fluorinated chemicals, including PFAS, used in cryogenic distillation, liquefaction, and cryogenic freezing as a P2 opportunity. The project will construct models of equipment, research alternative processing technologies, conduct Life Cycle Assessments, and promote the alternative processes to chemical, pharmaceutical, and micro-electrics businesses in New York, New Jersey, and Pennsylvania.

Region 3 Selectees:

\$253,391 to Virginia Department of Environmental Quality

Virginia DEQ's Office of Pollution Prevention will work with auto shops which may emit dust, odors, paint, and solvent fumes. The focus will be on replacing petroleum-based or chlorinated degreasers with Safer Choice-certified products, petroleum-based or aliphatic hydrocarbon-containing lubricants and corrosion inhibitors with plant oil-based, non-aerosol and alternatives low in volatile organic compounds, and lead-free alternatives to wheel weights. They will emulate previous, successful programs, like Green Wrench.

\$350,000 to University of Maryland

The University of Maryland will focus on creating shareable P2 resources for Mid-Atlantic breweries including best practice guides on water usage, wastewater reduction, energy efficiency, conservation, greenhouse gas emissions reduction, and a virtual training with the Toxics Use Reduction Institute (TURI). Additionally, TURI will assist in providing customized safer chemical substitution recommendations for up to 20 breweries. The University of Maryland will develop and launch a sustainable brewery recognition program for the Mid-Atlantic Region modeled after BetterBev New England.

Region 4 Selectees:

\$350,000 to University of North Carolina at Chapel Hill

University of North Carolina at Chapel Hill has partnered with University of Southern Maine, University of Maryland, and the Toxics Use Reduction Institute at University of Massachusetts Lowell to target technical assistance to breweries. They will focus on reducing the use of hazardous cleaning and sanitizing chemicals, wastewater production, water usage and greenhouse gas emissions.

\$349,690 to University of South Florida

University of South Florida will be providing technical assistance to reduce water and energy use, greenhouse gas emissions and hazardous air emissions (e.g., ammonia, sulfur dioxide, benzene, formaldehyde, volatile organic compounds, particulate matter, mercury) to the food and beverage manufacturing sector in Florida. Businesses will include agricultural processing, animal processing plants, bakeries, confectionaries, and beverage and ice manufacturing facilities.

\$295,870 to University of Alabama

University of Alabama has identified 183 automotive and metal manufacturing and fabrication businesses located in communities with environmental justice concerns using publicly available tools. They have partnered with several local organizations including the Alabama Industrial Assessment Center, Alabama Automotive Manufacturers Association, and American Society of Safety Professionals to perform outreach and education to the identified local businesses on P2 best practices and providing technical assistance.

\$305,738 to University of Louisville

The University of Louisville Kentucky Pollution Prevention Center has partnered with the University of Kentucky James B. Beam Institute for Kentucky Spirits to provide technical assistance to Kentucky businesses. They will focus on using sustainable value stream mapping and investigate energy efficiency opportunities to provide cost savings to distillers and automotive businesses and educate novice distillers on P2 best practices.

\$350,000 to Georgia Institute of Technology

The Georgia Institute of Technology will perform outreach to 230 manufacturing facilities releasing toxic chemicals to implement P2 strategies. They will focus on substitution of hazardous materials with safer and more sustainable replacements (e.g., replacing lead solder with lead-free alternatives, water-based paints that reduce volatile organic compounds emissions), environmental impact monitoring and measurement to establish their environmental footprint, closed-loop systems which reduce or repurpose toxic organic solvents, and educating employees on energy and water efficient usage.

Region 5 Selectees:

\$287,645 to Central Michigan University

Central Michigan University (CMU) is partnering with the Michigan Sustainable Business Forum (MiSBF) to work with food and beverage manufacturing businesses to undertake some of the recommended actions of "The Michigan Food Waste Reduction Road Map" which was recently developed by MiSBF. The project team will provide P2 technical assistance and training to food and beverage manufacturing and processing facilities and community partners located in disadvantaged communities in Michigan.

\$281,280 to University of Illinois

The University of Illinois will be providing breweries, wineries, distilleries, and cideries with on-site technical assistance to reduce hazardous waste from toxic cleaning products, avoid greenhouse gases emissions from organic waste disposal, and promote circular economy by reducing single-use plastics, composting, and purchasing reusable or recycled products.

\$233,022 to University of Minnesota

The Minnesota Technical Assistance Program (MnTAP) at the University of Minnesota will be focused on providing technical assistance to food manufacturers, including dairies, animal processing plants, and fruit and vegetable preserving businesses. They will work with businesses to reduce chemical discharges from clean-in-place systems, conserve water and energy in manufacturing processes, and minimize landfilling of organic waste.

Region 6 Selectee:

\$349,435 to University of Texas at Arlington

The University of Texas Arlington Extension and Extended Campus will be working with automotive businesses within communities with environmental justice concerns to conduct outreach and provide technical assistance to reduce use of hazardous materials use and air admissions. They will also conduct trainings to educate workers on handling solvents, paint thinners, and product substitutions. In addition, they will pilot an internship program to train emerging environmental professionals on P2 practices and projects.

\$350,000 to Louisiana State University

Louisiana State University's (LSU) Agricultural Center will be working with food and agricultural processors in rural Louisiana communities (e.g., sugar mills, seafood production). These businesses will aim to create a more sustainable manufacturing footprint with limited resources. LSU will focus on chemical reduction and bio-based substitutions as well as conduct field days to educate company staff on best practices.

Region 7 Selectees:

\$350,000 to Kansas State University

Kansas State University has identified Kansas businesses under all five National Emphasis Areas releasing toxic chemicals using EPA's Toxics Release Inventory. The focus of this grant is to provide technical assistance in toxics-use reduction using the Toxics Use Reduction Institute's tools, promote a green

brewery initiative to help breweries adopt P2 practices, and host events to foster collaboration, raise awareness, and engage disadvantaged communities and local businesses.

\$175,159 to University of Northern Iowa

The University of Northern Iowa will provide technical assistance to breweries including conducting pollution prevention audits and work to incentivizing breweries to participate in their program. The P2 in Breweries for TAPs (Technical Assistance Providers) Project will also provide training to technical assistance providers across the country with an interest in developing their own pollution prevention program for breweries.

\$349,712 to Missouri University of Science and Technology

Missouri University of Science and Technology has identified mineral mining operations as a P2 opportunity. The focus of the project will be providing technical assistance to replace conventional flocculants used in cylindrical tank thickeners (e.g., hydrolyzed polyacrylamide) with safer and more biodegradable flocculants (e.g., chitosan from crustacean shells, guar gum, starch-based polymers). The technical assistance plan will also include enhancing filtration efficiency and filtration design by using advanced materials and filtration technologies to reduce water use and toxic releases.

\$336,774 to Missouri State University

Missouri State University has partnered with the Missouri Association of Manufacturers and other organizations to identify and develop an outreach program to businesses within four of the National Emphasis Areas, food and beverage, automotive, aerospace, and metal manufacturing. They will provide P2 technical assistance and training to manufacturing companies in communities with environmental justice concerns and identify green chemistry alternatives.

Region 8 Selectees:

\$349,727 to Montana State University

Montana State University will be organizing a summit of Native Science Advisors to lead an effort to improve air quality in American Indian communities using both western science and Traditional Indigenous knowledge. The program will also continue outreach and provide technical assistance to food and beverage manufacturers, including breweries, and continue their Ecostar award program, recognizing small businesses for their P2 efforts.

\$350,000 to University of Utah

The University of Utah's Department of Chemical Engineering will assist businesses in reducing the use of hazardous chemicals, water consumption and air emissions for a cleaner, safer and more sustainable environment. In collaboration with the Department of Energy's Intermountain Industrial Assessment Center, they will provide technical assistance, resources, and training in P2 strategies. University of Utah will target business across all five national emphasis areas, including food and beverage, chemical, automotive, aerospace and metal manufacturing.

Region 9 Selectees:

\$350,000 to California Air Resources Board

The California Air Resources Board, in partnership with the California Green Business Network, will be providing technical assistance to automotive facilities in Southern California. Potential approaches include switching out aerosol solvent brake cleaners for less toxic water-based alternatives, converting from handwashing parts to mechanized water-based part washers, prevention of carwash oil and solids entering the watershed, and identifying best practices for reduction of oil and antifreeze waste.

\$350,000 to University of Nevada, Reno

The University of Nevada Reno's (UNR) Business Environmental Program will be conducting a series of educational webinars for auto repair shops on spray gun cleaners and cleaning equipment, alternative basecoats, primers, and topcoats and dust reduction and control practices. Following the webinars, technical assistance will be offered to reduce worker exposure to dust and solvents high in volatile organic compounds such as methyl ethyl ketone, toluene, xylene, methylene chloride, perchloroethylene, and n-propyl bromide used in different automotive processes. The UNR Business Environmental Program will also collaborate with the Pacific Northwest Pollution Prevention Resource Center to expand P2 West, a multi-region annual conference for P2 professionals.

Region 10 Selectees:

\$239,961 to Washington State Department of Ecology

The Washington State Department of Ecology will help to reduce worker exposure and water releases of toxic chemicals by working with companies to implement clean-in-place systems. These systems reduce the need for manual cleaning and help to minimize or eliminate the use of toxic chemicals. Washington State Department of Ecology will also be conducting virtual reality trainings to educate automotive and aerospace workers on more efficient spray-painting techniques which will reduce toxic air emissions and generated hazardous waste.

\$348,050 to Portland State University

Portland State University's Institute for Sustainable Solutions will implement the Toxics Prevention in the Columbia Corridor program which is a community-industry-university partnership approach to P2 in industrial facilities. They will work with Neighbors for Clean Air, and the Columbia Corridor Association to conduct outreach and technical assistance to targeted businesses in the food and beverage sector and metal manufacturing and fabrication sector in the Columbia Corridor which is adjacent to numerous low- and middle-income neighborhoods.

\$349,822 to Knik Tribe

The Knik Tribe, in partnership with the Alaska Forum, will conduct outreach to Alaska rural communities to educate businesses and residents on Safer Choice products. They will provide technical assistance to Alaskan Native villages and communities through in-person assistance, technical webinars, and through the Alaska Forum on the Environment's annual conference.

Selectees for the \$9.5 Million [P2 Grant Funded by the Traditional P2 Grants Program](#)

[New Hampshire Department of Environmental Services](#)
[Connecticut Department of Energy and Environmental Protection](#)
[Rhode Island Department of Environmental Management](#)
[University of Massachusetts Lowell](#)
[Virginia Department of Environmental Quality](#)
[Penn State University](#)
[West Virginia University](#)
[University of Delaware](#)
[East Carolina University](#)
[Georgia Institute of Technology](#)
[Tennessee Department of Environment and Conservation](#)
[North Carolina Department of Environmental Quality](#)
[Minnesota Pollution Control Agency](#)
[Michigan Department of Environment, Great Lakes, and Energy](#)
[New Mexico State University](#)
[Delgado Community College](#)
[Kansas State University](#)
[University of Nebraska – Lincoln](#)
[Colorado Department of Public Health and Environment](#)
[Montana State University](#)
[University of California – Berkeley](#)
[California Air and Resource Board](#)
[Western Nevada College](#)
[Oregon State University](#)
[Washington State Department of Ecology](#)

Region 1 Selectees:

\$265,000 to the New Hampshire Department of Environmental Services

The New Hampshire Department of Environmental Services (NHDES) will provide P2 technical assistance to New Hampshire's craft beverage sector with an emphasis on reducing environmental and health impacts for businesses and disadvantaged communities. As part of the BetterBev New England Green Craft Beverage Recognition Program, NHDES will continue to work with other New England P2 technical assistance providers to assist craft beverage producers in implementing environmentally friendly practices which save energy, conserve water, minimize wastewater, avoid toxic or hazardous chemicals and reduce greenhouse gases.

\$250,000 to the Connecticut Department of Energy and Environmental Protection

Connecticut Department of Energy and Environmental Protection (CT DEEP) will provide technical assistance to craft beverage manufacturers in Connecticut to reduce energy use and greenhouse gas emissions, solid and hazardous waste, water pollution and toxic chemicals. The Toxic Use Reduction Institute at University of Massachusetts Lowell will test, identify and recommend safer cleaning and sanitizing products. CT DEEP will continue to work with other New England states to offer the BetterBev

recognition program to incentivize businesses to carry out reduction measures. The project will prioritize facilities in or adjacent to communities with environmental justice concerns will be prioritized.

\$306,441 to the Rhode Island Department of Environmental Management

Rhode Island Department of Environmental Management (RIDEM) will provide P2 technical assistance to Rhode Island's craft beverage sector with an emphasis on reducing environmental and health impacts for businesses and disadvantaged communities. As part of the BetterBev New England Green Craft Beverage Recognition Program, RIDEM will continue to work with other New England P2 technical assistance providers to assist craft beverage producers in implementing environmentally friendly practices which save energy, conserve water, minimize wastewater, avoid toxic or hazardous chemicals and reduce greenhouse gases.

\$409,551 to the University of Massachusetts Lowell

The Toxics Use Reduction Institute at the University of Massachusetts Lowell will work with existing industry partners needing assistance to eliminate their use of trichloroethylene or other halogenated solvents in metal working and finishing sectors. The project will demonstrate the performance of new technologies to replace toxic solvents used in vapor degreasing and provide incentive grants for the adoption of safer alternatives. Replacing these toxic solvents will also help to improve human health and the environment of disadvantaged communities. The demonstration program will allow for a more effective and efficient assessment process, eliminating duplicative efforts to identify potential alternatives, contact vendors and validate methods.

Region 3 Selectees:

\$77,549 to Virginia Department of Environmental Quality

Virginia Department of Environmental Quality (Virginia DEQ)'s Office of Pollution Prevention will be conducting outreach under all five National Emphasis Areas by inviting businesses in communities with environmental justice concerns to participate in workshops designed to educate attendees on P2, including reduction of toxic chemical use, and conducting walkthroughs to engage with workers. EPA's P2 EJ Facility Mapping Tool will be used to identify businesses. Virginia DEQ will leverage business partnerships in their Virginia Environmental Excellence Program (VEEP) to attend workshops and encourage mentoring new businesses by current VEEP members.

\$351,183 to Penn State University

Penn State University's Pennsylvania Technical Assistance Program (PennTAP) will provide P2 and energy efficiency technical assistance to midsized food, chemical, and metal manufacturing businesses located in or adjacent to communities with environmental justice concerns and/or distressed communities. PennTAP will review utility usage and identify energy saving strategies. They will also conduct on-site assessments and make recommendations with an emphasis on reducing use of toxic chemicals, GHG emissions, and wastewater.

\$350,000 to West Virginia University

West Virginia University (WVU) will be developing educational materials and training to local businesses on reduction of toxic chemical use and pollution prevention best practices. WVU plans to address toxic chemicals such as ammonia, formaldehyde, toluene, and methylene chloride by conducting on-site technical assistance and providing recommendations. The program will focus on Safer Choice-certified products as safer alternatives to toxic chemicals.

\$81,000 to University of Delaware

The University of Delaware will be providing technical assistance to automotive businesses to support reduction of usage of energy, greenhouse gas emissions and toxics. The automotive businesses will include manufacturers and maintenance facilities, particularly those located in or adjacent to disadvantaged communities. In addition to providing energy audit recommendations, the program will focus on automotive business needs such as air compressors, ventilation systems, control of muffler exhaust, and replacement of pneumatic scrap collection systems with mechanical versions.

Region 4 Selectees:

\$652,664 to East Carolina University

East Carolina University (ECU) will provide technical assistance to businesses in and adjacent to communities with environmental justice concerns identified using publicly available tools. They will focus on reductions in toxic chemicals, hazardous air and greenhouse gas emissions, and water usage in businesses under all five National Emphasis Areas. ECU will also conduct P2 and lean manufacturing training courses and on-site training for workers and engineers across North Carolina.

\$441,000 to Georgia Institute of Technology

The Georgia Institute of Technology will be providing technical assistance to automotive and metal manufacturing businesses within or near communities with environmental justice concerns. They will focus on substitution of toxic chemicals with safer alternatives (e.g., replacing lead solder with lead-free alternatives), optimization of manufacturing processes which will reduce energy and water consumption, training and coaching employees to identify opportunities for the efficient use of materials and resources.

\$200,000 to Tennessee Department of Environment and Conservation

The Tennessee Department of Environment and Conservation – Office of Sustainable Practices (TDEC OSP) will provide technical assistance to food and beverage and chemical manufacturing businesses throughout Tennessee, with a specific focus on those that are in disadvantaged communities and report Toxic Release Inventory data to the EPA. They will provide P2 strategies through education and outreach in the form of webinars, workshops, and a collaborative demonstration workshop with Oak Ridge National Lab's Manufacturing Demonstration Facility. Additionally, TDEC OSP will amplify P2 successes, best practices, and cases studies through its social media platforms, the Tennessee Green Star Partnership and Governor's Environmental Stewardship Awards.

\$242,220 to North Carolina Department of Environmental Quality

The North Carolina Department of Environmental Quality Environmental Stewardship Initiative (ESI) promotes and encourages superior environmental performance by the state's regulated community. NCDEQ will provide training and technical assistance on environmental management system development and implementation, P2 strategies, and regulatory compliance guidance. NCDEQ will support members and other businesses under all five National Emphasis Areas. NCDEQ will also work to institutionalize, integrate, replicate, and amplify pollution prevention practices through training, technical assistance, recognition, networking, and sharing of best practices and program achievements.

Region 5 Selectees:

\$101,111 to Minnesota Pollution Control Agency

The Minnesota Pollution Control Agency (MPCA) will be working with metal manufacturing and fabrication businesses to reduce or eliminate the use and release of PFAS through identification and substitution of safer alternatives. MPCA will use literature reviews, data analysis, and incorporate successful technical assistance activities to identify areas for potential source reduction techniques and other options through on-site assessments.

\$700,000 to Michigan Department of Environment, Great Lakes, and Energy

Michigan Department of Environment, Great Lakes, and Energy (EGLE) will start a Statewide P2 Food Waste Reduction Technical Assistance program that will provide technical assistance to food and beverage manufacturing and processing businesses. They will focus on reducing the amount of organic material, hazardous substance, pollutant, or contaminant entering waste streams or released into the environment prior to recycling of discarded material, treatment, or disposal, as well as conserving the use of natural resources.

Region 6 Selectees:

\$350,000 to New Mexico State University

New Mexico State University will provide on-site technical assistance to breweries in communities with environmental justice concerns. The project will focus on reduction of toxic chemicals, waste, water and energy conservation practices, and reduction of emissions. They will also develop outreach materials which will be translated into Spanish, Navajo, or Tewa to broaden program engagement.

\$699,700 to Delgado Community College

Delgado Community College has partnered with Louisiana Tech, Dillard University, Xavier University and the Love Your City Initiative to provide support to communities with environmental justice concerns in Louisiana. The project will provide training and technical assistance to reduce the use of toxic chemicals in food and beverage, chemical, and metal manufacturing businesses identified using publicly available tools.

Region 7 Selectees:

\$231,553 to Kansas State University

Kansas State University will identify food, beverage, chemical, auto, aerospace, and metal manufacturers releasing toxic chemicals, such as acetaldehyde, n-hexane, ammonia, toluene, benzene, ethylbenzene, and heavy metals, using EPA's Toxics Release Inventory. This grant focuses on providing technical assistance in toxics-use reduction, reducing water and hazardous waste, lowering energy and water usage, and facilitating an internship program that pairs Kansas university students with local companies to work on sustainability projects.

\$331,809 to Iowa Department of Natural Resources

The Iowa Department of Natural Resources will provide technical assistance to businesses using state of the art techniques including thermal imaging assessments. The program will review existing P2 opportunities, conduct detailed assessments, and follow-up assessments of businesses. Thermal imaging

assessments will focus on heat and energy loss, pinpointing building envelope issues, and equipment inefficiencies in businesses under all five National Emphasis Areas.

\$298,650 to University of Nebraska – Lincoln

University of Nebraska-Lincoln will provide technical assistance to food and beverage, chemical, automotive, and metal manufacturing businesses. The focus will be on identifying toxic chemical alternatives, process optimization, and water and energy conservation. The program will conduct on-site assessments as well as follow-up assessments as needed.

Region 8 Selectees:

\$507,118 to Colorado Department of Public Health and Environment

Colorado Department of Public Health and Environment and the Colorado Green Business Network will provide technical assistance to food and beverage, chemical, automotive, and aerospace manufacturing businesses focusing on hazardous material reduction, energy and fuel efficiency, water use, greenhouse gas emissions reduction, and waste minimization. The program will also conduct trainings on P2 best practices and implement an awards and recognition program.

\$406,882 to Montana State University

The Montana Pollution Prevention Program at Montana State University will continue to provide support to food and beverage manufacturing and processing businesses with their P2 summer college intern program. Interns will provide businesses with P2 best practices and will gain valuable real-world experience in implementing P2 principles and applying their food science and engineering knowledge to minimize environmental impacts.

Region 9 Selectees:

\$480,939 to University of California – Berkeley

University of California – Berkeley program is focused on reducing toxic chemical use by conducting research to identify safer alternatives. This grant supports an industry and academic partnership that focuses on developing a path toward safer, high performing chemicals by working together to address hazards at their source. In the process, the next generation of green chemistry students will arrive in the industry with a clear understanding of how to design safer, effective chemicals for products that people use every day.

\$350,000 to California Air and Resource Board

California Air and Resource Board, partnering with the California Green Business Network, will be providing technical assistance to auto repair and maintenance facilities in northern California. Technical assistance will include 1:1 bilingual support. In addition to direct technical assistance, training and resources will be developed for use by a network of green business coordinators throughout the state (and beyond). The project will help improve human health and the environment in disadvantaged communities by reducing pollution and exposure to toxic substances in northern Central Valley, Central Coast, San Francisco Bay and East Bay areas.

\$700,000 to Western Nevada College

Western Nevada College and greenUP! have identified a preliminary list of PFAS used in motor vehicle air conditioning systems, centrifuge chillers, foam insulation for walls, furniture, bedding, and solvents used in aerosol cleaners. The focus of the program will be providing technical assistance on safer alternatives to food and beverage, chemical, automotive, aerospace, and metal manufacturing businesses in communities with environmental justice concerns.

Region 10 Selectees:

\$450,610 to Oregon State University

Through its Oregon Sea Grant internship program, Oregon State University will work with selected interns to provide technical assistance to food and beverage, chemical, aerospace, and metal manufacturing businesses. The project will focus on reducing usage of toxic chemicals by substituting with safer alternatives and reduction of greenhouse gases, water usage and hazardous waste.

\$327,570 to Washington State Department of Ecology

The Washington State Department of Ecology is looking to reduce toxic chemical releases to air, water, and land from chemical manufacturing and processing businesses. The program will focus on toxic chemical alternatives, reduction of waste, energy and water use, as well as reduction of hazardous air emissions via their Lean and Green program and manufacturing extension partnership.