

A. Senior Personnel:

Note: All FTE Salaries include a 3% annual increase

MSU's Associate Vice President of Research, Narcisa Pricope, PhD, will provide supervision for all testing and awards under the GHG Grants Program. Funds are requested for 3% of Pricope's time. Her annual base salary is \$185,000. A 3% raise of Pricope's base income has been calculated for every year, beginning year 2. Total funds requested: \$29,470.

Deputy Director for the MSU Office of Technology Management, Austin Check will provide oversight of all program activities. Funds are requested for 25% of Check's time. His annual base salary is anticipated to be \$120,000 at the beginning of the project. A 3% raise of Check's base income has been calculated for every year, beginning year 2. Total funds requested: \$159,274.

A Senior Program Manager will be hired to manage the day to day operations of the entire program. Funds are requested for 100% of the SPM's time. The annual base salary is \$110,000. Total funds requested: \$584,005.

A Project Business Manager will be hired to ensure that all terms of the grant are followed, accounting, and will be responsible for preparing / submitting the required reports to EPA. Funds are requested for 100% of the PBM's time. The annual base salary is \$85,000. Total funds requested: \$451,277.

A Contracts Manager will be hired. This position will work with other program staff to review and approve external documents, (GHG Grant Offers/ Awards, RFP's, and participate in program events where applicable. The position will require a Juris Doctor degree or equivalent. Funds are requested for 100% of the CM's time. The annual base salary is \$125,000. Total funds requested: \$663,643.

A Marketing Manager will be hired to oversee the entire marketing effort of the program and will be responsible for recruiting potential applicants to the GHG Grants Program. Additionally, the Marketing Manager will be responsible for planning and executing events. Funds are requested for 100% of the MM's time. The annual base salary is \$80,000. Total funds requested: \$424,731.

B. Other Personnel

Note: All FTE Salaries include a 3% annual increase

A current employee will serve as Central Mississippi Coordinator to participate in regional events and serve as a liaison to interested stakeholders. Funds are requested for 10% of the employee's time. The employee's annual base salary is \$110,000. Total funds requested: \$58,401

A current employee will serve as South Mississippi Coordinator to participate in regional events and serve as a liaison to interested stakeholders. Funds are requested for 10% of the employee's time. The employee's annual base salary is \$79,432. Total funds requested: \$42,168

A Project Engineer will be hired to collect accurate on-site pre and post award emissions data for the GHG Grants Program. Funds are requested for 100% of the MM's time. The annual base salary is \$55,000. Total funds requested: \$292,005.

Two Research Engineer III's from the Mississippi State University Center for Advanced Vehicular Systems will be tasked with validating alternative fuels submitted under the GHG Grants Program, using engine and vehicle dynamometer and testing their tailpipe emissions using portable instrumentation to verify the application claims. Funds are requested to cover between 7.5%-10% of their time. Their total base salaries are \$227,544. Total funds requested: \$105,431.

A Seagrass Supervisor will be hired to oversee the Seagrass Restoration Project. Funds are requested for 100% of the SS's time. The annual base salary is \$50,000. Total funds requested: \$265,457.

An Equipment Operator will be hired to operate the tractor for the Biochar Production Project. Funds are requested for 100% of the EO's time. The annual base salary is \$55,000. Total funds requested: \$292,005

A Forest Technician will be hired assist with the day to day activities for the Biochar Production Project. Funds are requested for 100% of the FT's time. The annual base salary is \$45,000. Total funds requested: \$238,912.

A Carbon Manager will be hired to manage the installation, daily activities, and data collection for the Forest Infrastructure Project. Funds are requested for 100% of the CM's time. The annual base salary is \$60,000. Total funds requested: \$318,549

A Forest Carbon Technician will be hired assist with the day to day activities for the Forest Infrastructure Project. Funds are requested for 100% of the FCT's time. The annual base salary is \$50,000. Total funds requested: \$265,456.

The Deputy Director of the Mississippi State University Advanced Composites Institute (ACI) will provide oversight and management of the Composites Recycling Project. Funds are requested for 2% of the DD's time. His base salary is \$151,351. Total funds requested: \$9,357.

A Senior Research Engineer with ACI will provide day to day supervision for the Composites Recycling Project. Funds are requested for 15% of the SRE's time. His base salary is \$60,000. Total funds requested: \$27,818.

An Assistant Professor with MAFES will provide supervision of the No Till & Cover Crops Project. Funds are requested for 4% of the AP's time. His base salary is \$110,313. Total funds requested: \$23,426.

The Department Head of Plant & Soil Sciences will provide overall supervision of the Solar Growing Pods Project. Funds are requested for 2% of the DH's time. His base salary is \$217,110. Total funds requested \$23,426.

A Professor with Plant & Soil Sciences will manage the daily operation of the Solar Growing Pods Project. Funds are requested for 2% of the professor's time. His base salary is \$185,000. Total funds requested: \$19,643.

A Solar Installation Manager will be hired to manage the rural solar energy demonstration installation. Funds are requested for 100% of the SIM's time. The annual base salary is \$50,000. Total funds requested: \$101,500.

An Assistant Professor with MAFES will provide supervision of the Carbon Sequestration Dashboard Project. Funds are requested for 1% of the AP's time during the academic 9mo. Period and .5% additional time during the summer months. His base salary is \$80,000 Total funds requested: \$7,075.

A Graduate Student will be hired to assist with the Composites Recycling Project. The GS will have an annual salary of \$24,000. Total funds requested: \$72,000.

A Graduate Student will be hired to assist with the Solar Growing Pod Project. The GS will have an annual salary of \$22,050. Total funds requested: \$110,250.

Four (4) Student Interns will be hired to assist with the marketing and other aspects of the program. These interns will be paid \$18/hr. Examples or routine tasks include preparing materials for events, assisting with demonstrations and events, and compiling data. We have budgeted everyone to each work 1040 hours a year. Total funds requested: \$397,548.

C. Fringe Benefits

Fringe Benefits - These benefits are applied to salary for staff at a rate of 41.02%, 9-mo faculty in the summer at a rate of 25.75%, intermittent workers at a rate of 8.33%, and student interns at .62%

Total fringe benefits for staff at the 41.02% rate for YR1 – YR5 is \$1,804,808.

Total fringe benefits for 9-mo faculty (Summer) at the 25.73% rate for YR1-YR5 is \$727.

Total fringe benefits for intermittent workers at the 8.33% rate for YR1— YR5 is \$10,569.

Total fringe benefits for student interns at the .62% rate for YR- - YR5 is \$2,808.

D. Equipment:

Funds are requested to purchase a portable emissions measurement system for the GHG Grants Program. The equipment will be used to validate and demonstrate emission reductions of alternative fuel projects in real world conditions. Total funds requested: \$550,000.

Funds are requested to install an alternative fuel testing dynamometer for the GHG Grants Program. The equipment will be used to validate and demonstrate the use of alternative fuel projects in existing ICE vehicles and would allow for the use of Hydrogen and other fuels that have special handling requirements. Total funds requested: \$450,000.

Funds are requested to purchase a methane detection package for the GHG Grants Program, that will be attached to an existing drone owned by MSU. The package will be used to take emissions measurements at landfills and other large sites. Total funds requested: \$50,432.

Funds are requested to purchase a greenhouse for the Seagrass Restoration Project. The greenhouse will be used to grow the plants and serve as a demonstration site for the public. Total funds requested: \$150,000.

Funds are requested to purchase two filtration systems for the Seagrass Restoration Project. Total funds requested: \$16,000.

Funds are requested to purchase a portable air curtain burner for the Biochar Production Project. Total funds requested: \$165,000.

Funds are requested to purchase a prime mover for the Biochar Production Project. The prime mover will transport the portable air curtain burner and other equipment to work sites. Total funds requested: \$80,000.

Funds are requested to purchase a conventional 75 HP tractor w/ loader for the Biochar Production Project. The tractor will be used to load materials into the air curtain burner. Total funds requested: \$58,000.

Funds are requested to purchase a 30-foot gooseneck trailer for the Biochar Production Project. The trailer will be used to transport the tractor and other equipment. Total funds requested: \$28,000.

Funds are requested to purchase a brush grapple and heavy-duty disc for the Biochar Production Project. Total funds requested: \$12,000.

Funds are requested to purchase three eddy flux towers for the Forest Infrastructure Project. Total funds requested: \$379,500.

Funds are requested to purchase three portable GHG monitoring systems for the Forest Infrastructure Project. Total funds requested: \$300,000.

Funds are requested to purchase a portable photosynthesis system for the Forest Infrastructure Project. Total funds requested: \$65,000.

Funds are requested to purchase a lab-based elemental carbon analyzer for the Forest Infrastructure Project. Total funds requested: \$92,000.

Funds are requested to purchase a lab-based X-ray densitometer for the Forest Infrastructure Project. Total funds requested: \$75,000.

Funds are requested to purchase a GHG data server for the Forest Infrastructure Project. Total funds requested: \$60,000.

Funds are requested to integrate a real time data portal from the Forest Infrastructure Project into the CAMP publicly available website. Total funds requested: \$10,000.

Funds are requested to purchase a DEECOM CF recycling unit for the Composites Recycling Project. Total funds requested: \$900,000.

Funds are requested to purchase a steam generator for the Composites Recycling Project. Total funds requested: \$200,000.

Funds are requested to purchase a waste heat powered electrical generator for the Composites Recycling Project. Total funds requested: \$60,000.

Funds are requested to purchase autosamplers and flow meters for the No Till / Cover Crops Project. Total funds requested: \$120,000.

Funds are requested to purchase four POD containers for the Solar Growing Pods Project. Total funds requested: \$660,000.

Funds are requested to purchase two storage units for the Solar Growing Pods Project. Total funds requested: \$200,000.

Funds are requested to purchase a solar power system for the Solar Growing Pods Project. Total funds requested \$200,000.

Funds are requested to purchase demonstration signage for the Solar Growing Pods Project. Total funds requested: \$32,000.

Funds are requested to purchase twenty-five standard range EV pickups for the EV & Charging Demo Project. The vehicles will be used to demonstrate their utility and economic advantages in a variety of vocational and commercial applications. Total funds requested: \$1,424,875.

Funds are requested to purchase twenty-seven extended range EV pickups for the EV & Charging Demo Project. The vehicles will be used to demonstrate their utility and economic advantages in a variety of vocational and commercial applications. Total funds requested: \$2,278,503.

Funds are requested to purchase sixteen special service vehicle (SSV) EV pickups for the EV & Charging Demo Project. The vehicles will be used to demonstrate their utility and economic advantages in various public safety applications. Total funds requested: \$295,470.

Funds are requested to purchase eleven EV tractors for the EV and Charging Demo Project. The tractors will be used to demonstrate to their practical application in a variety of agricultural and commercial settings. Total funds requested \$1,048,978.

Funds are requested to purchase six utility terrain vehicles (UTV's) for the EV and Charging Demo Project. The UTV's will be used to demonstrate to their practical application in a variety of agricultural and commercial settings. Total funds requested \$198,750.

Funds are requested to purchase five educational kiosks for the Solar Demo Project to be located on the multiple demonstration sites. Total funds requested \$40,000.

Funds are requested to purchase flux chambers, gas analyzers (N₂O, CH₄/CO₂), multiplexers, moisture sensor, and a solar power system for the Climate Smart Agricultural Tools Project. Total funds requested: \$468,060.

E. Travel

Funds are requested for 4 days travel, to train on utilizing the equipment to grow seagrass. Total funds requested: \$1,556.00

Funds are requested to pay for travel costs associated with the Biochar Production Project. Total funds requested: \$51,000.

Funds are requested to pay for travel costs associated with the installation site equipment for the Forest Infrastructure Project. Total funds requested: \$4,144.

Funds are requested to pay for travel costs associated with site maintenance of the equipment for the Forest Infrastructure Project. Total funds requested: \$16,576.

Funds are requested to pay for travel costs associated with promotion of the CAMP program. Total funds requested: \$139,860.

Funds are requested to pay for travel costs associated with developing and promoting the Carbon Sequestration Dashboard Project. Total funds requested: \$5,000.

F. Materials & Supplies

Funds are requested to purchase five computers and associated supplies for Project Management personnel. Total funds requested: \$4,000.

Funds are requested to cover the costs of CAMP marketing and associated events. The funds are budgeted at \$200,00 for YR1-YR2 and \$100,000 for YR 3-5. Usage of these funds will include developing supporting educational materials, on-site events, conference presentations, and other associated activities. Total funds requested: \$700,000.

Funds are requested to purchase six, one hundred fifty-gallon tanks for the Seagrass Restoration Project. Total funds requested: \$24,000.

Funds are requested to purchase saltwater mix, live plants, demonstration signage, and maintenance supplies for the Seagrass Restoration Project. Total funds requested: \$ 115,500.

Funds are requested to purchase fuel and other miscellaneous operating supplies for the Biochar Production Project. Total funds requested: \$125,000.

Funds are requested to purchase 4 laptop/tablet computers and one thousand seven hundred twenty-four tree dendrometers for the Forest Infrastructure Project. Total funds requested: \$210,000.

Funds are requested to purchase pipes, gravel, soil moisture sensors, demonstration signage, and other miscellaneous supplies for the No Till /Cover Crops Project. Total funds requested: \$270,000.

Funds are requested to purchase consumable supplies and utilities for the Solar Growing Pods Project. Total funds requested: \$263,000.

Funds are requested to purchase a laptop computer and data loggers for the Carbon Sequestration Dashboard Project. Total funds requested: \$4,000.

Funds are requested to purchase signage for the EV & Charging Demo Project. Total funds requested: \$30,000.

Funds are requested to purchase a laptop computer and signage for the Solar Demonstration Project. Total funds requested: \$36,000.

Funds are requested to purchase Tubes, power cables, accessory kits, software, and casing for the Climate Smart Agricultural Tools Project. Total funds requested: \$27,645.

G. Other

Funds are requested to pay for graduate research assistant tuition & insurance. Total funds requested: \$85,790.

Funds are requested to be utilized for subawards via the GHG Grants Program. Budget to be available for disbursement as grant funding will be used as awards to applicants submitting successful proposals. Smaller grants requesting funding <\$10,000 will be evaluated by a minimum of two program staff who will discuss and make a joint award decision. Proposal requests >\$10,000 will go through a structured evaluation by a review panel and be subjected to more assessments. These funds will be held and managed by Mississippi State University. Total funds requested: \$40,000,000.

Funds are requested to support GHG Grants Program panel members. Panel members will receive a **stipend** for reviewing proposals and participating in the process, including developing written reviews of assigned proposals, and being involved in virtual meetings which may last 3-4 days. The stipend will be \$750.00/day per person. Stipends will not be given to Staff of Mississippi DEQ, Mississippi State University, or the third-party contractor brought on to support the project.; though, other contractors would be eligible. These funds will be held and managed by Mississippi State University. Total funds requested: \$162,000.

Funds are requested hire a third-party contractor to install an external conditioned fuel storage for the GHG Grants Program. This provides for the safe storage of alternative fuels submitted for testing with varying, and sometimes not yet well understood properties to ensure the safety of all personnel, facilities, and equipment. Total funds requested: \$35,000.

Funds are requested to hire a third-party contractor to serve as a consultant for the GHG Grants Program. The contractor. will provide staff labor support in helping develop and implement the competitive grants program for Mississippi, including participating in and potentially running virtual meetings to discuss and agree on proposal eligibility, conflict of interest, and technical review guidelines, and preparation of proposal solicitations (requests for proposals). The contractor will also help in identifying and contacting potential panel members, provide initial screening-level reviews of proposals, and potentially serve as a panel member. The total number of contractor labor hours requested for the 5-year duration is 5,958, distributed at approximately 84% technical and 16% administrative. The necessary level of effort decreases overall for Years 4 and 5 (FY28, FY29) as the grants program stabilizes; further, the relative proportion of administrative hours to Technical increases. These funds will be in the form of a firm fixed price (FFP) subcontract to Tetra Tech by Mississippi State University. Total funds requested: \$1,252,133.

Funds are requested to hire a third-party contractor to provide water quality engineering and testing for the Seagrass Restoration Project. Total funds requested: \$25,000.

Funds are requested to hire a third-party contractor, for the purpose of providing on-site certification for the Biochar Production Project. Total funds requested: \$6,000.

Funds are requested to hire a third-party contractor to provide tower site maintenance for the Forest Infrastructure Project. Total funds requested: \$75,000.

Funds are requested to hire a third-party contractor to provide forest management services for the Forest Infrastructure Project. Total funds requested: \$1,250,000.

Funds are requested to hire a third-party contractor to provide tower installation services for the Forest Infrastructure Project. Total funds requested: \$60,000.

Funds are requested to hire a third-party contractor to provide data plans for the Forest Infrastructure Project. Total funds requested: \$5,400.

Funds are requested to hire a third-party contractor(s) to perform the installation of the steam generator, recycling unit, and waste heat generator, for the Composites Recycling Project. Total funds requested: \$100,000

Funds are requested to hire a third-party contractor to preform precision leveling of the 4 pads for the No Till / Cover Crops Project. Total funds requested: \$120,000.

Funds are requested to hire a third-party contractor to preform site preparation work for the Solar Growing Pods Project. Total funds requested: \$100,000.

Funds are requested to hire a third-party contractor to provide shipping services for the four pods for the Solar Growing Pods Project. Total funds requested: \$26,000.

Funds are requested to hire a third-party contractor to provide software for the Solar Growing Pods Project. Total funds requested: \$36,000.

Funds are requested to hire a third-party contractor to provide three years of training for the Solar Growing Pods Project. Total funds requested: \$30,000.

Funds are requested to hire a third-party contractor to develop the Carbon Sequestration Dashboard and integrate into the CAMP website for public use. Total funds requested: \$40,000.

Funds are requested to hire a third-party contractor to install, operate, and maintain forty-eight level II, five level III, and six agricultural EV charging stations for the EV & Charging Demonstration Project. The level II & III charging stations will be installed along with the Solar Demonstration Projects for cost efficiencies. Total funds requested: \$2,445,000.

Funds are requested to hire a third-party contractor to manufacture and install vehicle graphics for the 91 EV's proposed in the EV & Charging Demonstration Project. Total funds requested: \$45,500.

Funds are requested to hire a third-party contractor to install and maintain solar systems at three commercial office locations to demonstrate the economic viability of adding solar generation at existing commercial developments. Total funds requested: \$9,191,254.

Funds are requested to hire a third-party contractor to install and maintain solar systems at four rural forestry facilities to demonstrate the economic viability of adding solar generation at existing rural facilities. Total funds requested: \$885,005.

Funds are requested to hire a third-party contractor to install and maintain solar systems at a poultry farm to demonstrate the economic viability of adding solar generation to existing agriculture facilities. Total funds requested: \$225,125.

Funds are requested to hire a third-party contractor to install and maintain solar systems at a volunteer fire station to demonstrate the economic viability of adding solar generation to existing public safety facilities. Total funds requested: \$218,221.

Funds are requested to hire a third-party contractor to install and maintain solar systems on a existing classroom building to demonstrate the economic viability of adding solar generation to existing educational facilities. Total funds requested: \$202,770.

Indirect Costs

Facilities and administrative costs (F&A) are charged at a rate of 26% of the Modified Total Direct Cost (MTDC). This rate was negotiated with and approved by the U.S. Department of Health and Human Services, Mississippi State University's cognizant agency. MTDC consists of all salaries, stipends, wages, fringe benefits, travel expenses, contractual services, materials, supplies, and the first \$25,000 of each subcontract. MTDC excludes equipment, tuition, and fees for graduate students. Total funds requested: \$6,560,436.