|  |  |
| --- | --- |
| **Applicant Identification** | |
| **Applicant Organization[[1]](#footnote-2)** |  |
| **Physical Address** |  |
| **Contact Name, Email, and Phone Number** |  |
| **Project Identification** | |
| **Project Title** |  |
| **Prime Award Information** | *Include awarding agency, office, and nature of award. If applicable, state FOA name and number. If available, include first/last name and contact information for the prime award officer.* |
| **Prime Award Status** | Pending  Encouraged to Apply  Selected for Negotiation/Awarded  Contracted *(please contact AmplifyMass program manager before applying)*  Not Applicable |
| **Proposed Total Project Budget** |  |
| **Total Cost Share Requirement** |  |
| **Requested Support from MassCEC[[2]](#footnote-3)** |  |
| **Nature of MassCEC Support** | The reason for this funding request is:  Cost-share required by prime award.  Adder - *not required by prime,* *$ that will extend the project scope from that listed in the prime award.* *If adder,* ***please fill out sections on page 5*.** |
| **Role of Requested MassCEC Support** | *Brief explanation of use of funds in 3-5 sentences.*  *•Will the fund be used to hire essential personnel, license software, purchase new equipment, etc.?*  *•Identify any other organizations or entities from whom project is seeking cost share support*  *•Describe funding gaps, if any, in resources available from project partners and implications for project if not selected for AmplifyMass award* |
| **Proposed Project Term** | [MM/DD/YYYY – MM/DD/YYYY] |
| **Focus Area** | Please select a category for the proposed technology:  Energy & Electricity Transportation Manufacturing & Industry  Buildings Resilience & Adaptation Agriculture & Water Other |

|  |
| --- |
| 1. **Project Precis** |
| *Limited to 1-3 sentences per bullet point, as applicable.*   * *Description of your company, lab, or entity* * *Industry background/current challenge* * *Proposed project/solution* |

|  |  |
| --- | --- |
| 1. **Potential of the Proposed Technology** | |
| **Technology and Project Summary** | |
| **Technology Overview** | ***Context/industry overview:***  *•What is the context for this project/technology? Describe the current industry, other programs/technologies etc. that pertain to the project in question. Include some high-level statistics if available.*  *•Why is this industry important (if no apparent connection to clean energy or climatetech)?*  ***Challenge:***  *•What are the pain points of the existing programs/industry solutions addressed by the project?*  *•What are some existing solutions? What are some shortcomings of these solutions?*  ***Solution:***  *•How will the proposed project solve the problem(s)?*  *•How will it be better than what currently exists in the market and/or other solutions under development?* |
| **Technology Details** | * *A description of the technology, including the current state of development and if it has been proven.* * *Specific details on how this technology operates.* * *The proposed technology is at the TRL 2-8 stage and this is justified by appropriate validation.* |
| **Technical and Market Risks** | * *An assessment of the technical risks associated with the technology, including the extent of identified risks and uncertainties, and proposed strategies for risk mitigation.*   *Identify any market, regulatory or policy drivers that will enable (or inhibit) adoption of the technology.*   * *Identify any market, regulatory or policy drivers that will enable (or inhibit) adoption of the technology.* |

|  |  |
| --- | --- |
| 1. **Commercialization Potential** | |
| **Commercialization Potential** | * *Please explain your target markets for the technology* * *Describe the proposed business model of the company (i.e., will the product be licensed or sold directly to the end consumer?)* * *If the business model of the company will change over time (i.e. from a licensing to manufacturing model), provide a description of this progression.* |

|  |  |
| --- | --- |
| 1. **Clean Energy and Climatetech Benefits** | |
| **Benefits** | * ***Benefits to the Commonwealth:*** *Provide a quantification of economic development (e.g. jobs supported, infrastructure developed, etc.) and energy/climate impacts to the Commonwealth. Describe the relevance of the proposed project and technology to Commonwealth clean energy and climatetech challenges and priorities.* |
| **Total Addressable Carbon (TAC) Analysis\*** | * *Provide an analysis of the potential reduction in greenhouse gas emissions or the avoidance of future GHG emissions achievable given widespread use of the technology/innovation.* *Applicants are encouraged to use tools such as*[***the CRANE tool***](https://cranetool.org/)*, or other credible public data sources such as the United States Department of Energy’s*[***Energy Information Administration***](https://www.eia.gov/todayinenergy/detail.php?id=30712)*, the U.S. Environmental Protection Agency’s*[***National Emissions Inventory***](https://www.epa.gov/air-emissions-inventories/national-emissions-inventory-nei)*(especially for greenhouse gases other than carbon dioxide), the*[***EPA's Greenhouse Gases Equivalencies Calculator***](https://www.epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references)*, and others. You may also use MassCEC’s* [***Emissions Reduction Analysis***](https://www.masscec.com/sites/default/files/documents/ERPGranteeInstructions.pdf)*instructions and the corresponding*[***template***](https://www.masscec.com/sites/default/files/documents/erpcollectiontemplate.xlsx) *as tools. This is not a requirement at time of application.* * *Describe, to the most detailed extent possible:* * *The current and future market in which emissions reductions are expected.* * *Please reference the aforementioned potential market size for the technology* * *The emissions currently associated within that sector.* * *The magnitude of emissions reductions potentially achievable using the technology proposed.* * *Include a description of how the technology directly or indirectly saves energy, and the magnitude of those energy savings (i.e., “This technology uses (or would use) XX% less energy than the current state-of-the-art.”)* * *Energy efficiency technologies may calculate energy savings rather than carbon avoidance.* |
| *MMT CO2-e reduced per year, assuming optimistic adoption:* |
| *Describe assumptions and calculations:* |
| *List any references used in your estimations and analysis:* |

|  |  |
| --- | --- |
| 1. **Project Details** | |
| **Project Plan** | ***Goal/Objective:*** *What is the goal/objective of project? Briefly state each goal/objective that the project hopes to achieve.*  ***Project timeline and scope:***  ***How*** *will the goal be reached? Briefly explain the* ***project timeline and scope*** *of work.* |
| **Project Outcomes** | *Expected outcomes:*  *What are the expected outcomes of the project?*  *Next steps:*  *Once the project is completed, what are the anticipated next steps, including application of the project results, the consequent research proposal, etc.?* |
| **Adder Funding Justification** | *If requesting adder support, identify how this funding will extend the project scope from that listed in the prime award.* |
| **Adder Scope** | *If requesting adder support, identify the specific tasks and costs that adder funding will be used to accomplish.* |

|  |  |
| --- | --- |
| 1. **Team** | |
| **Principal Investigator(s)** | *\* Include name and title for each and briefly describe primary role on project. Attach resumes or bios.* |
| **Project Partners and Contributions** | *Identify all partners and their role pertaining to the project.*  *If applicable, describe form of contribution (cost-share, adder, etc.), how partners will contribute (in-kind, cash, etc.), and any other sources of support (monetized and non-monetized). Please delineate dollars spent in Massachusetts vs. out of state.* |

|  |  |
| --- | --- |
| 1. **For Company Applicants Only** | |
| **Number of Full-Time Equivalent Employees** | ­­­­­---------------------------------------------------------------------------------------------------------------  I confirm that my company meets the definition of a small business, as outlined by the United States Small Business Administration's "[Table of Small Business Size Standards](https://www.sba.gov/sites/default/files/Size_Standards_Table.pdf).” |
| **Location(s) of All Company Operations** |  |

**Required Attachments:**

|  |  |
| --- | --- |
| **ARPA-E APPLICANTS ONLY** | **ALL OTHER APPLICANTS** |
| Budget Synopsis (use template provided)  ARPA-E Concept Paper  ARPA-E Response to Concept Paper  ARPA-E Full Application  ARPA-E Response to Full Application  Biographies/resumes of key team members  Authorized Applicant’s Signature and Acceptance Statement  Applicant’s response to comments from ARPA-E reviewers | Budget Synopsis (use template provided)  Technical proposal submitted to federal/non-federal prime funder  Biographies/resumes of key team members  Authorized Applicant’s Signature and Acceptance Statement  Applicant’s response to comments from prime award reviewers |

I, the applicant, certify that I have reviewed the template grant agreement, found on [MassCEC’s website.](http://www.masscec.com/amplifymass)

**Applications should be submitted via e-mail to** [**amplifymass@masscec.com**](mailto:amplifymass@masscec.com) **with the subject line “AmplifyMass Final Application – [Research Institution or Company Name].”**

**QUESTIONS?**

MassCEC AmplifyMass Program

Massachusetts Clean Energy Center

294 Washington St., 11th Floor, Boston, MA 02108

Email: [amplifymass@masscec.com](mailto:amplifymass@masscec.com)

1. Please apply with the entity name you wish to use if awarded [↑](#footnote-ref-2)
2. This amount may not exceed $300,000. [↑](#footnote-ref-3)