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| **Applicant Identification** |
| **Applicant Organization[[1]](#footnote-2)** |  |
| **Physical Address** |  |
| **Contact Name, Email, and Phone Number** |  |
| **Project Identification** |
| **Project Title** |  |
| **Prime Award Information**  | *Include dollar amount, awarding agency, office, and nature of award.* *If applicable, state FOA name and number.**If available, the prime award officer first/last name and contact information.* |
| **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: Adder Funding Justification and Adder Scope.*** |
| **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 |

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| 1. **Project Precis**
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| *Limited to 1-3 sentences per bullet point, as applicable.** *Description of your company, lab, or entity*
* *Industry background/current challenge*
* *Proposed project/solution*
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| 1. **Potential of the Proposed Technology**
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| **Technology and Project Summary** |
| **Technology Overview** | *Limit to 3-5 sentences per bullet point, as applicable.****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**  | *Limit to 1-5 sentences per bullet point, as applicable.** *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** | *Limited to 3-5 sentences per bullet point, as applicable.** *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.*
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| 1. **Commercialization Potential**
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| **Commercialization Potential** | *Limited to 3-5 sentences per bullet point, as applicable.** *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.*
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| 1. **Clean Energy and Climatetech Benefits**
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| **Benefits**  | *Limited to 1-5 sentences per bullet point, as applicable.**Include calculations, as applicable.* * ***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\*** | *Limited to 1-5 sentences per bullet point, as applicable.**Include calculations, as applicable.* * *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.*

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| *MMT CO2-e reduced per year, assuming optimistic adoption:* |
| *Describe assumptions, references, and calculations:* |
| *List any references used in your estimations and analysis:*  |

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| 1. **Project Details**
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| **Project Plan** | *Limited to 1-5 sentences per bullet point, as applicable.** ***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**  | *Limited to 1-5 sentences per bullet point, as applicable.** ***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.* |

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| 1. **Team**
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| **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.*
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| 1. **For Company Applicants Only**
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| **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:**

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| **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** **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

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)