The template provides the format for Concept Papers for RFP-23-01 that will be submitted to REMADE. There is a 6-page limit to each proposal, excluding the title page, appendices, and references. Proposals should retain the formatting in this template (11-point font, 1“ margins on all sides).

Title of Proposal[[1]](#footnote-2)

|  |  |
| --- | --- |
| Proposal Submission to the REMADE Institute  (*under DE-EE0007897 – U.S. DOE Advanced Manufacturing Office*) | |
| **Submitting REMADE Member Lead Organization:** |  |
| **Supporting Organizations/**  **Companies:** |  |
| **Principal Investigator (PI) and Title:** |  |
| **Co-principal investigator(s) (if applicable) and Title(s)** |  |
| **Relevant REMADE Node:** |  |
| **Relevant REMADE Material Class(es):** |  |
| **Starting TRL/Ending TRL:** |  |
| **Proposal Submission Date:** |  |
| **Project Duration:** |  |
| **REMADE Funds Requested:** |  |
| **Cost Share Being Provided:** |  |
| **Proposed Cost Share Ratio[[2]](#footnote-3):** (at a minimum, 1:1 cost share is required) |  |
| **Have you received prior DOE/REMADE/Fed Funding for this work? If yes, list projects & funding amounts.** |  |
| **Key Words:** |  |

Submitter Name Approver Name

Title of Submitter Title of Approver

**Summary of Prior Work (2-page maximum) – *What did you accomplish previously?***

Please provide a **two-page summary** of your prior or current REMADE-funded or independently-funded technology development efforts, describing (a) the problem you addressed, (b) the technical approach you followed (and the key technical elements of the approach), (c) the technology demonstrations you have conducted, (d) the results you achieved relative to the REMADE Institute TPMs, and (e) why you believe your technology has already attained TRL 6.

Proposers should not include proprietary or confidential information in the executive summary because REMADE may share it publicly.

The Summary of Prior Work text begins here.

**Summary of Proposed Work (4-pages maximum)**

**Technology Demonstration *– What technology will you be demonstrating?***

Please provide asummary describing (a) how your proposed Technology DV&V project extends your prior efforts, (b) what you will demonstrate with the supplemental funding, (c) the equipment, facilities, and feedstocks you will utilize for the demonstration and why they are more representative of an industrial environment than your prior work, (d) whether, and how, your team members have changed relative to your prior R&D work, and (e) whether your team includes at least one industry partner who is guiding the project and supply chain stakeholders who would utilize the secondary feedstocks.

The Technology Demonstration write-up begins here.

**Technology Verification – *What performance or financial targets must you meet?***

Please provide a summary explaining how you established the performance and financial targets your technology must meet for the supply chain to adopt your technology. Topics to discuss are: (a) who from the relevant supply chains your technology will impact has confirmed that the technology you will be demonstrating is relevant and valuable to their supply chain, (b) how you identified the performance and financial targets you must achieve, and (c) who has helped you quantify the economic, environmental (embodied-energy and lifecycle impacts), and increased secondary feedstock benefits you are claiming. If members of the supply chain or relevant stakeholders did not help you identify the performance and financial targets or quantify the benefits you are claiming, please explain how you determined them. If you have yet to establish the performance and financial targets, please explain how you intend to do so.

The Technology Verification write-up begins here[[3]](#footnote-4).

**Technology Validation – *How will you quantify the performance/ impacts of your work?***

Please provide a summary describing how you will validate the performance of the feedstocks or technology you will demonstrate. Topics to discuss are: (a) which technologies you will be validating relative to their performance and cost, (b) how you plan to evaluate the technical performance of the materials or technologies you will be demonstrating (and whether industry partners are involved in the evaluation) and (b) how you plan to quantify the economic and environmental (embodied energy and lifecycle impacts) performance and the increased use of secondary feedstock of the technology relative to your prior work.

The Technology Validation text begins here.

**Path for Technology Implementation and Commercialization & Adoption Risks/Barriers *– What else remains to be done, and what issues could inhibit technology adoption?***

Please provide a summary describing what steps must be taken at the end of the Technology DV&V project to implement the technology in your industry. Topics to discuss are (a) what additional technology development or testing might need to be performed, (b) which supply chain organizations or stakeholders still would need to be engaged, (c) the most likely technology transition path into the supply chain, (d) how much additional investment would be required to implement or commercialize the technology, and (e) key risks and barriers that still might prevent technology adoption at the end of the project and how you would overcome them. Additionally, please discuss whether any industry partners on the team or entities from the broader supply chain have expressed interest in implementing or commercializing the technology or have committed to investing in further technology maturation.

The Path for Technology Implementation and Commercialization & Adoption Risks/Barriers text begins here.

1. **Budget**

Provide a summary of the proposal team’s budget (REMADE funding and cost share) for your Technology DV&V project, including a breakdown of the REMADE Institute funding and cost share each organization will receive.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Technology Demonstration, Verification, and Validation (DV&V) Project Budget** | | | | |
| Cost Element | Federal Cost | Cost Share | Total | Brief Explanation or Description |
| Lead Organization            Lead Labor Hours            Materials | $75,000  *1000 hrs*  *$0k* | $100,000  *500 hrs*  *$10k* | $175,000  *1500 hrs*  *$10K* | *Management;*  *Testing & Validation materials* |
| Subrecipient #1            Labor Hours            Materials | $50,000  *500 hrs*  *$0* | $25,000  *250 hrs*  *$0* | $75,000  *750 hrs* |  |
| Subrecipient #2            Labor Hours            Materials |  |  |  |  |
| Subrecipient #3            Labor Hours            Materials |  |  |  |  |
| Subrecipient #4            Labor Hours            Materials |  |  |  |  |
| Lead Organization           Indirect Costs | $25,000 | $25,000 | $50,000 |  |

1. **References**

REMADE encourages applicants to include supporting literature references.

1. To view the instruction for each section of this template, please select the ¶ button on the Home screen of Microsoft Word under Paragraph. [↑](#footnote-ref-2)
2. Cost Share Ratio is defined as REMADE Institute funding requested versus Cost Share provided by the proposers. [↑](#footnote-ref-3)
3. To help proposers calculate material efficiency and embodied energy benefits for their proposals and projects, REMADE has developed an Excel-based calculator, which is currently in beta testing. This calculator and the instructions for using the calculator are available at the following location: [Project Impact Calculator.](https://remadeinstitute.org/project-impact-calculator/) This tool is not mandatory, and proposal teams that opt not to use it will not be penalized; however, they will still need to calculate their proposal’s energy, lifecycle impacts, and material efficiency benefits. Please submit the Excel file with your proposal if you use the calculator. [↑](#footnote-ref-4)