**Biomass Analysis Technologies – Analytical Development Support Directed Funding Opportunity (DFO) White Paper**

**(Insert Project Title Here)**

**Applicant/Participant:** (*Legal company name and technical point of contact information.)*

* Is the applicant incorporated in the U.S.: *Yes/No*
* Is the company owned by a foreign entity: *Yes/No. If Yes, provide parent name and country. (Work must be performed in the United States.)*
* Company description: (*Provide a brief description of your company.)*
* Location(s): (*List your company’s major U.S. manufacturing or research and development sites.)*
* Participant POC:

Name:

Address:

Telephone:

Email:

**Topic:** (*List the topic number and title.)*

*Each section of this template is aligned with the specific review criteria. Please complete each section. White papers should be sufficiently long to make a compelling case, with the total length varying by project—****but should be no more than 10 pages in length****.*

# Technical Approach

# Summary (maximum 1 page)

*Succinctly summarize the project, including the technical challenge to be addressed, the technical approach, the expected outcome(s), and the potential impact. Limit your summary to 1 page.*

# Joint Work Statement (~1 page)

# Non-Proprietary Abstract

# *Provide a brief non-proprietary description of work to be performed. (maximum 800 characters)*

# Purpose

*Provide a 1- or 2-sentence statement of project purpose.*

# Reasons for Cooperation

*Briefly describe each party’s interests and strengths and how they are complementary with respect to developing the technology.*

1. **Scope of Work (3–4 pages)**
   1. **Technical Objective:**

*(Describe the technical goals of the project.)*

* 1. **Phases/Tasks of the Project, Duration, and Responsible Parties:**

*(Describe the phases/tasks of the project, if appropriate. Identify the individual tasks within each phase (if applicable) in table format. Subtasks may also be included. Subtasks should provide enough detail so that progress can be easily tracked. (See suggested table layout below.) The duration and responsible party for each task/subtask should be listed. In the section following the table, provide a discussion of the objective of the task and the deliverable that will be produced as a result of the task.)*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PhaseNo.** | **TaskNo.** | **Task Name** | **Duration (Months)**  **(Start) (Finish)** | | **Responsible Party** |
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**Task Descriptions and Deliverables:** *(Add tasks as necessary. Include due dates for deliverables.)*

Task 1:

Discussion:

Contractor Deliverables:

Participant Deliverables:

Duration of Entire Project:

*(Express, in months, the proposed length of the project from start to finish.)*

*The Technical Approach will be evaluated based on the Summary, Joint Work Statement, and Scope of Work and is 50% of total score.*

# Potential for Impact (2–3 pages)

* *Provide an analysis and discussion describing the potential impact of the project’s success on the Bioenergy Technology Office’s (BETO’s) goals.*
* *To what extent is the proposed technology consistent with the objectives and achievement of BETO goals, targets, and metrics?*
* *How will addressing the technical barrier described impact the advancement or development of sustainable biofuels, bioproducts, and/or biopower?*
* *Describe how access to national lab capabilities and expertise offers a substantial acceleration in meeting BETO objectives.*
* *Describe and discuss the potential market impact that could result from the proposed research and development (R&D).*

*Potential for Impact is 40% of total score.*

# Appropriateness of Government Resources (~1 page)

*Provide an analysis and discussion of the following points:*

* *Describe why government investment is required, and why the private sector cannot or will not invest in the proposed R&D.*
* *If known, indicate specific capabilities being requested.*

*Appropriateness of Government Resources is 10% of total score.*

1. **Term, Funding, and Costs**

The Participant's estimated contribution is $\_\_\_\_\_. The Government's estimated contribution, which is provided through the participant lab’s contract with DOE, is $\_\_\_\_, subject to available funding. The total value of this project is estimated to be $\_\_\_\_\_\_\_\_.

* 1. **Funding Table (all $ in K)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Funding** | **Project**  **Year 1** | **Project**  **Year 2** | **TOTALS** |
| **Contractor (NREL)** |  |  |  |
| **Participant** |  |  |  |
| In-Kind |  |  |  |
| Funds-In |  |  |  |
| **Total Participant** |  |  |  |
| **TOTAL**  **Value** |  |  |  |