**Project Title**

Applicant(s): PI Name/Company or University/Contact Information

DISCOVR Team Liaison: National Lab Contact

1. **Project Overview and Background (~0.3 - 0.5 pg)**

*Provide a brief overview of the proposed work and background information and preliminary data necessary for understanding the scope of the problem and the impact of the proposed solution. Notably, preliminary data should be focused on increased biomass productivity and/or improved stability of cultures in outdoor cultivation systems. For strains going into the DISCOVR <pipeline> (link to DISCOVR Pipeline or Tiers on the website), describe what is known about the strain and justification for characterizing it in the DISCOVR process.*

*Please clearly note which season(s) of the year the strain or approach is expected to be the most impactful.*

1. **(30% of total score) Challenges Addressed and Research Approach (~1 pg)**

*Provide a discussion of the challenges addressed, research approach, the innovative aspects of the approach, and how the approach addresses the challenges you’ve identified. For strains going into the DISCOVR pipeline, describe which aspects of the DISCOVR pipeline you are interested in – the entire process, or specific <Research Areas> (Link to Research Areas list) in DISCOVR. If the LEAPS will be used <LEAPS photobioreactors> (This is a Research Area link), please describe the proposed experimental conditions, including culture medium (or if you propose to use the DISCOVR medium for a more standardized comparison), proposed temperature/light/environmental script, pH, etc. Identify risks and mitigation strategies.*

1. **(25% of total score) Impact of Proposed Research on the Biofuels and Bioproducts Industry (~0.5 pg)**

*Describe the potential technical and economic impact of the effort’s success on the development and deployment of biofuels and bioproducts. Discuss the specific application of the strain or operational approach, potential additional applications, and a description of how the proposed technology is scalable and appropriate for the product(s) or production pathway(s) being developed.*

1. **(10% of total score) Benefit to Algae Community (­­~0.5 pg)**

*Explain how the proposed work, in collaboration with the DISCOVR Team, will accelerate the development and potential commercial deployment of outdoor algae biomass production for renewable products, more broadly than if the applicant were to complete the effort alone.*

1. **(20% of total score) Key Personnel, Resources, and DISCOVR Capabilities (~0.5 pg)**

*Describe the project team’s unique qualifications and expertise, existing equipment and facilities, and the DISCOVR or State of Technology Research Areas (Link to Research Areas list) that will be leveraged as part of this project.*

1. **(15% of total score) Milestones and Appropriateness of Government Funding (~0.5 pg)**

*Provide the proposed start and end dates for the project and key milestones or expected outcomes from the work. Populate the tables with a list of one final milestone and up to 3 intermediate milestones over the project period. Provide justification for why government investment is required for the proposed project.*

**Milestones.** Propose one final milestone and 1-3 intermediate/progress milestones.

|  |  |
| --- | --- |
| **Milestone Table** | |
| **Milestone Description** | **Quarter** |
|  |  |
|  |  |
|  |  |
|  |  |