

Topic Information:

For the Mixed Algae Conversion Research Opportunity (MACRO) FOA (DE-FOA-0003274) only, DOE is compiling a Teaming Partner List to facilitate the formation of new project teams under the Notice of Intent NOI DE-FOA-0003276.

The potential funding opportunity includes the following Areas of Interest:

Topic Area 1: Conversion of Seaweeds and Waste Algae to Low Carbon Fuels and Products

Topic Area 1 aims to address gaps in storage, mobilization, and conversion of seaweeds and other wet algal feedstocks to low-carbon products and enable these readily available feedstocks to access new markets. Applications would be sought that will develop laboratory or bench scale technologies and/or processes for utilizing: macroalgae (seaweeds); blends of macroalgae and wet wastes, and/or wet algal wastes for conversion to fuels and products with significant, on a national scale, potential to displace fossil greenhouse gas (GHG) emissions. Applications will be required to demonstrate that the utilization of these feedstocks to generate products at commercial scale has the potential of at least 50% GHG reductions compared to conventional fuel and/or products.

Topic Area 2: Conversion of Algal Biomass for Low Carbon Agricultural Products

The goal of Topic Area 2 is to utilize carbon dioxide emissions streams from utilities or industrial sources to grow algae for source material and create value-added products. Applications would be sought that use anthropogenic (e.g., fossil fuel derived) carbon dioxide emissions to be used in the algae cultivation process and then convert those macro- and/or micro algae into low-carbon agricultural applications or products such as animal feed. Applications will be encouraged to focus on optimization of the technologies and processes for the conversion of cultivated algae biomass to products and clearly describe the end use products targeted. Applications will be required to show a reduction in CO₂ emissions through life cycle analysis and demonstrate that the targeted products provide benefits compared to current, commercially available products. Applications proposing animal feed as products should describe requirements for necessary testing or demonstrations of the resulting product. Developing successful conversion technologies can further improve, the economics and carbon utilization efficiencies of these products, resulting in additional market share that encourages further algae biomass cultivation and carbon dioxide utilization.

Submittal Instructions:

Any organization that would like to be included on this list should submit the following information via the Exchange teaming partner list under FOA DE-FOA-0003274

Please include the following information in your submittal:

1. Topic Field

Please cut-and-paste ONE of the following subtopics into the TOPIC field – if you want to be included on teaming lists for multiple subtopics, please submit separately for each subtopic.

Topic Area 1: Conversion of Seaweeds and Waste Algae to Low Carbon Fuels and Products

Topic Area 2: Conversion of Algal Biomass for Low Carbon Agricultural Products

2. Background, Interests, Capabilities Field

This Teaming Partner List is being made available to facilitate the widest possible national participation in the formation of applicant teams for this potential FOA. The List allows organizations who may wish to participate on an application to express their interest to other applicants and explore potential partnerships, including representation from Minority Serving Institutions (e.g., Historically Black Colleges and Universities (HBCUs)/Other Minority Serving Institutions); partnerships with Minority Business Enterprises, Minority Owned Businesses, Woman Owned Businesses, Veteran Owned Businesses, and tribal nations; and workforce education, training, and development or labor organizations.

DOE also requires cost share, so this teaming list may provide an opportunity to identify commercial cost-share partners.

Please include information about your organization type/characteristics in the “Background, Interest, Capabilities” field in Exchange to help other participants identify your capabilities.

Disclaimer: *By submitting a request to be included on the Teaming Partner List, the requesting organization consents to the publication of the above-referenced information. By enabling and publishing the Teaming Partner List, EERE is not endorsing, sponsoring, or otherwise evaluating the qualifications of the individuals and organizations that are self-identifying themselves for placement on this Teaming Partner List. EERE will not pay for the provision of any information, nor will it compensate any applicants or requesting organizations for the development of such information.*