

Grants Notice

“Area of Interest 2: Fuels, Fuel Additives, and Lubricant Formulas”

Closing date for applications: March 16, 2006

Award ceiling: not given

Award floor: not given

Cost sharing or matching requirement: Yes

- The minimum Recipient cost share is 25% for Phase I and 50% for Phase II. (See Part III.B. COST SHARING in PDF)

Agencies: US Department of Energy, National Energy Technology Lab

Category: Energy Efficiency and Renewable Research Information Dissemination, Outreach, Training and Technical Analysis/Assistance.

Eligible Applicants: Unrestricted

Description

The U.S. Department of Energy (DOE), National Energy Technology Laboratory (NETL), on behalf of the Office of Energy Efficiency and Renewable Energy's (EERE) Office of FreedomCAR and Vehicle Technologies (OFCVT), is seeking applications for cost-shared projects supporting various programs within the OFCVT. Area of Interest 2: Fuels, Fuel Additives, and Lubricant Formulations (DE-PS26-06NT42718-02) Applications are sought proposing fuels-related R D projects addressing one or more of the following focus areas. If responding to more than one focus area, the applicant shall address the evaluation criteria separately for each focus area. (Note page limitation for additional focus areas. See Part IV.C.2, Project Narrative File.) **Focus Area 1:** Fuels for Advanced Combustion Regimes Fuel-focused research on the facilitation or enhancement of advanced combustion regime engine operation—e.g. HCCI, LTC, etc. In the most general terms, the term “advanced combustion regimes” is intended to encompass clean and highly efficient, liquid-fueled combustion engines. Such engines may incorporate novel thermodynamic cycles, but should not simply involve regurgitation of existing concept, should have extremely low engine-out NOx and PM as a target, and should have efficiency similar to state-of-the-art direct injection diesel engines (i.e., approximately 40% peak thermal efficiency for light duty and greater than 48% peak thermal efficiency for heavy duty). **Focus Area 2:** Direct Petroleum Displacement by Liquid Alternative Fuels for Engines in Transportation Research and development projects or evaluation activities related to renewable or alternative fuels that displace petroleum-derived fuels or that enable advanced combustion regime engines. **Focus Area 3:** Lubricant Formulations to Enhance Engine Efficiency Research and development projects on novel lubricant formulations expected to significantly improve the efficiency of engines or that otherwise enable the development and use of advanced combustion regime engines. **Focus Area 4:** Fuel Additives to Enhance Engine Efficiency Research and development projects on novel fuel additives

expected to significantly improve the efficiency of engines or that otherwise enable the development and use of advanced combustion regime engines. This area of interest is for new or early developed concepts supporting and enabling Fuels for Advance Combustion Regimes, Direct Petroleum Displacement by Liquid Alternative Fuels for Compression-Ignition Engines, Lubricants Formulations to Enhance Engine Efficiency, and Fuel Additives to Enhance Engine Efficiency. Although large businesses are permitted to apply under this announcement, responses are encouraged from innovative companies that are interested in research, development, and testing of advanced fuel and lubricant technologies. The proposed funding opportunity will be for projects consisting of two phases of development. Phase I, lasting from between 6 to 12 months, will be for the proof-of-principle development of technology applicable to one or more of the topic areas listed below. Phase II, lasting between 18 to 24 months, will be for the scaled-up testing of the technology developed in Phase I at the appropriate laboratory, bench, pilot, or on-board scale of testing. Teaming arrangements under this area of interest are NOT required but are strongly encouraged. Participation of universities, small businesses, and DOE Laboratories is also encouraged (Reference Part III.C. for Federally Funded Research and Development Center [FFRDC] restrictions). The FFRDC contractor effort, in aggregate, shall not exceed 25% of the total estimated cost of the project, including the applicant's and the FFRDC contractor's portions of the effort. It is expected that two (2) to four (4) cooperative agreements will be awarded in this area of interest. It is estimated that a total of approximately \$1,000,000 in DOE funds will be available to be divided among all the awards in this area of interest. The minimum Recipient cost share is 25% for Phase I and 50% for Phase II. (See Part III.B. COST SHARING.)

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Applications must be submitted through grants.gov to be considered for award. There are several one-time actions you must complete in order to submit this application. **This process can take up to 14 days to complete.** Read page 2 of the master announcement ([Click here to view the Opportunity](#)) for information on how to begin the process as soon as possible.

Questions relating to the registration process, system requirements, how an application form works, or the submittal process must be directed to Grants.gov at 1-800-518-4726 or support@grants.gov.

You must read the funding opportunity master announcement for additional information, details, evaluation criteria and application instructions.

Click on the link to access the Funding Opportunity Master Announcement
Link to Full Announcement: [Click here to view the Opportunity](#)

Original synopsis posted January 26, 2006