Office of Science Financial Assistance Funding Opportunity Announcement DE-PS02-06ER06-24

Advanced Detector Research Program

The Office of High Energy Physics of the Office of Science (SC), U.S. Department of Energy, hereby announces its interest in receiving grant applications for support under its Advanced Detector Research Program. Applications should be from investigators who are currently involved in experimental high energy physics, and should be submitted through a U.S. academic institution. The purpose of this program is to support the development of the new detector technologies needed to perform future high energy physics experiments.

LETTER OF INTENT: November 20, 2006, 4:30 PM Eastern Time

Applicants are requested to submit a <u>Letter of Intent</u> which includes the title of the proposal, the name of the principal investigator(s), the requested funding, and a one-page abstract. Failure to submit a letter of intent will not negatively prejudice a responsive formal application submitted in a timely manner.

APPLICATION DUE DATE: December 19, 2006, 8:00 pm, Eastern Time

Applications must be submitted using <u>Grants.gov</u>, the Funding Opportunity Announcement can be found using the CFDA Number, 81.049 or the Funding Opportunity Announcement number, DE-PS02-06ER06-24. Applicants must follow the instructions and use the forms provided on Grants.gov.

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SUPPLEMENTARY INFORMATION: Future high energy physics experiments will require higher performance detectors to exploit the higher beam energies and intensities of new or upgraded accelerators. Higher performance detectors are also needed to probe for new physical processes in both accelerator-based and non-accelerator-based experiments. Proposed detector research should be driven by the anticipated needs of experiments to be built within the foreseeable future. Generic detector research that could be applied to upgrades that have not yet been approved would also be appropriate. It is expected that the final engineering or fabrication of detectors for specific experiments will **not** be funded by this program. Interesting technologies would include but not be limited to charged particle track detectors, calorimeters or particle identification detectors that are less susceptible to radiation damage, have higher resolution, are

lower in cost, or can be read out faster than currently available detectors. Proposals to develop detector technology that is targeted at experiments for an energy frontier e+e- linear collider should **not** be submitted under this notice unless additional credible uses for the technology are described. Alternative funding is potentially available for that purpose.

Collaboration

Applicants are welcome to collaborate with researchers in other institutions, such as universities, industry, non-profit organizations, federal laboratories and Federally Funded Research and Development Centers (FFRDCs), which include the DOE National Laboratories. In the case of collaborative applications submitted from different institutions that are directed at a single research activity, each application must have a different scope of work and a qualified principal investigator who is responsible for the research effort being performed at his or her institution. There must be a single technical description of the proposed work, and separate face pages and budget pages for each institution. The scope of work at each institution must be clearly specified. While collaboration with researchers at FFRDCs (Fermi National Accelerator Lab and other DOE national labs are examples of FFRDCs), is encouraged, no funds will be provided to those organizations under this notice. The procedure for submitting a collaborative application can be accessed via the web at: http://www.science.doe.gov/grants/Colab.html. This section provides specific details regarding collaborating institutions.

Posted on the Office of Science Grants and Contracts Web Site September 28, 2006.