

FY 2012 Mid-Term Call for Proposals
Generic Detector R&D for an Electron Ion Collider
Spring Advisory Committee Meeting

In January 2011 Brookhaven National Laboratory announced a generic detector R&D program to address the scientific requirements for measurements at a future Electron Ion Collider (EIC). The primary goals of this program are to develop detector concepts and technologies that have particular importance for experiments in an EIC environment, and to help ensure that the techniques and resources for implementing these technologies are well established within the EIC user community.

This program is supported through R&D funds provided to BNL by the DOE Office of Nuclear Physics. It is not intended to be specific to any proposed EIC site, and is open to all segments of the EIC community. Proposals should be aimed at optimizing detection capability to enhance the scientific reach of polarized electron-proton and electron-ion collisions up to center-of-mass energies of 100-200 GeV and e-p equivalent luminosities up to a few times $10^{34} \text{ cm}^{-2}\text{s}^{-1}$. Funded proposals will be selected on the basis of peer review by a standing EIC Detector Advisory Committee consisting of internationally recognized experts in detector technology and collider physics. This committee meets approximately twice per year, to hear and evaluate new proposals, and to monitor progress of ongoing projects. The program is administered by the BNL Physics Department.

The website for this R&D program is at: https://wiki.bnl.gov/conferences/index.php/EIC_R%25D

This program is funded at an annual level of \$1.0M - \$1.5M, subject to availability of funds from DOE NP. The next meeting of the Advisory Committee is planned for May 2012 (exact dates to be announced). ***Proposals to be considered at this meeting should be received at BNL by April 20, 2012.***

Proposals should include:

- A description of the project, including its relevance for the EIC experimental environment and science program, the expected results of the R&D project, the approach that will be taken to carry it out, and the likely follow-up effort, if applicable.
- A description of the necessary resources, the scientific and technical personnel who will carry out the project, and the additional support, if any, to be provided by the proposing institutions.
- A funding request and budget. Funds may be requested for a period of 1, 2, or 3 years.

Proposals should be submitted to:

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Electronic submission is encouraged: ludlam@bnl.gov