

FY 2016 Call for Proposals

Generic Detector R&D for an Electron Ion Collider

Summer 2015 Detector Advisory Committee Meeting

In January 2011 Brookhaven National Laboratory, in association with Jefferson Lab and the DOE Office of Nuclear Physics, 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 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, with annual funds of currently about \$1M, subject to availability of funding from DOE NP.

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

The next meeting of the Detector Advisory Committee is planned for July 9-10, 2015. ***Proposals to be considered at this meeting should be received at BNL by June 15, 2015.***

Preparation and Submission of Proposals:

In collaboration with the EIC Detector R&D Committee the guidelines for preparing proposals have been slightly revised. The new guidelines are more explicit in some areas in order to facilitate the review process. Before compiling your proposals please look at the following proposal guidelines:

- https://wiki.bnl.gov/conferences/index.php/EIC_R%25D#Preparation_and_Submission_of_Proposals
- or directly: <https://wiki.bnl.gov/conferences/images/e/e9/ProposalGuidelines.pdf>

Proposals should be submitted to:

Thomas Ullrich, Brookhaven National Laboratory

Electronic submission is encouraged: thomas.ullrich@bnl.gov