

FY 2021 Call for Proposals
Directed Detector R&D for an Electron Ion Collider
Summer 2020 Detector Advisory Committee Meeting

Brookhaven National Laboratory, in association with Jefferson Lab and the DOE Office of Nuclear Physics, is conducting a 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 open to all segments of the EIC community. Proposals should be aimed at developing realistic detector concepts, optimizing detection capability to enhance the scientific reach of polarized electron-proton and electron-ion collisions up to center-of-mass energies of $140 \sqrt{Z/A}$ GeV and ep equivalent luminosities up to $10^{34} \text{ cm}^{-2}\text{s}^{-1}$. 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 limited annual funds, 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 23-24, 2020. The meeting will be a remote meeting due to the current COVID-19 situation.

New proposals, i.e. proposals that are not associated with any ongoing project funded already by this program, need to be submitted **by May 29, 2020**. New proposals received after this deadline will not be accepted. The PIs will be informed in early June if their proposals were pre-selected by the EIC Detector R&D Committee and can be presented at the July meeting. A pre-selection does not imply approval. If accepted, the PIs can update their proposal using recommendations from the R&D Committee. The final proposal should be submitted **by June 26, 2020**.

Continuation and renewal proposals together with the mandatory progress reports from ongoing R&D projects for the FY20 funding have to be received **by June 26, 2020**. Proposals received after the deadline will not be considered.

If you are not sure in which category your proposal falls, please contact: thomas.ullrich@bnl.gov

Preparation and Submission of Proposals:

In collaboration with the EIC Detector R&D Committee the guidelines for preparing proposals and (for ongoing projects, progress reports) have been revised. Please note that the new guidelines contain also information related to the current COVID-19 pandemic and its impact on the FY20 program. They also contain an updated, more detailed, description of what R&D qualifies for funding. The new guidelines are more explicit in some areas in order to facilitate the review process:

<https://wiki.bnl.gov/conferences/images/e/ea/ProposalGuidelines-2020.pdf>

Proposals should be submitted electronically to:

Thomas Ullrich, Brookhaven National Laboratory

Email: thomas.ullrich@bnl.gov