

EIC Detector 1 Institution Survey

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General Institutional Information

- Name of institution:
BNL
- the EIC proposal efforts your institution joined
ATHENA+ECCE
- confirm that your institution is interested to join the EIC Detector 1 effort:
YES
- Did your institution participate in the Expression-of-Interest survey in 2019
YES

Institutional Research group size estimates - Total EIC Detector 1 effort

Overall comments:

- BNL has research fund to support scientific staff, others are potentially available but have to be supported by the EIC project
- BNL has three groups (CQCD, PHENIX and STAR) in physics department on research, and an instrumental department on detector design/fabrication, and all are actively involved in EIC. This is in addition to the EIC project, CAD and computing infrastructure.
- Current Nuclear Physics in Physics Department (~60FTE at RHIC+EIC) + IO

Available FTE before/around 2025

	CQCD	PHENIX	STAR	IO	Submitted (for now)
Faculty					
Scientific staff					
Engineer					
technicians					
postdoc					

Not that important at this point, but probably will be discussed and needed in the near future!

Consortium memberships at EIC

- Silicon Consortia (IO)
- AC-LGAD Consortia (PO)
- PID Consortia (CQCD)

your institutional physics interests with respect to
your anticipated active Working Group (WG)
participation

We have selected all of the WGs:

- Software WG: NPPS
- Inclusive WG: Gluon Spin +CGC+ small-system flow +
- Semi-inclusive WG: baryon junction +
- Exclusive, Diffractive and Tagging: Vector Meson
- Jet & Heavy Flavor WG:
- BES & EW WG:

your institutional sub-system interests to actively participate in a Detector 1 sub-system

- Calorimetry Forward: FEMC
- Calorimetry Forward: FHCAL
- PID Backward: mRICH/pfRICH
- PID Barrel: AC-LGAD TOF
- Tracking Silicon
- Far Backward: Luminosity monitor
- Far Forward: Roman Pots
- Computing
- Software
- DAQ
- BNL has computing infrastructure, detector labs and machine shops