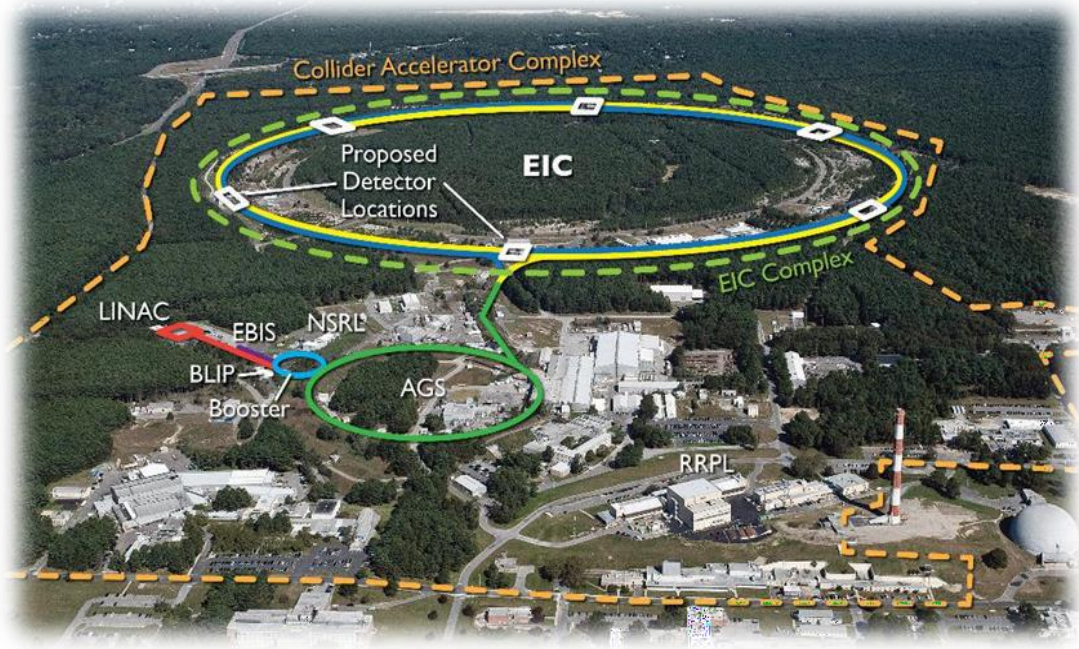


# Electron-Ion Collider (EIC) Project Partnership w/ Brookhaven National Lab (BNL)

Jefferson Lab scope: \$600M



## CURRENT CHALLENGES/ISSUES/RISKS

The annual funding profile will remain uncertain until CD-2 when the Performance Baseline is established; CD-2 requires a complete understanding of EIC Project dependencies, including in kind contributions, and risk.

## PLANNED CD's (FY Dates)

|  | CD-3b                 | CD-2                  | CD-3                  | CD-4                  |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 1 <sup>st</sup> QFY25 | 3 <sup>rd</sup> QFY25 | 3 <sup>rd</sup> QFY25 | 1 <sup>st</sup> QFY35 |

## PROGRAM, MISSION, SCOPE, ACQUISITION STRATEGY

**PROGRAM:** Nuclear Physics (NP) **LOCATION:** BNL

**MISSION NEED:** The EIC will revolutionize our understanding of the inner workings of the nucleus by providing us with detailed knowledge of the internal structure of the proton and more complex atomic nuclei that is comparable to our knowledge of the electronic structure of atoms.

**PROJECT SCOPE:** A unique, high-energy, high-luminosity, polarized beam collider; one of the most challenging and exciting accelerator complexes ever built. Scope includes the infrastructure, accelerators, and the detector required to meet facility requirements.

**ACQUISITION STRATEGY:** Largely performed by scientific and technical staff with support from other national laboratories. Much of the subcontracted work to be performed for EIC consists of hardware fabrication and conventional facilities construction. Each system or component will be procured using fixed price contracts unless there is a compelling reason to employ another contract type.

## EIC's TOP TAKE-AWAYS

### BNL & JLab are Full Partners:

- Integrated project management at all levels
- Of the \$89.998M that the project is seeking CD-3A approval for, 3 items are JLab scope with a total cost of \$44.1M.
- JLab core expertise guided scope assignments
  - SRF technology ; Cryogenics ; Magnets
  - Particle detectors ; Electronics ; Computing
  - Accelerator physics and design