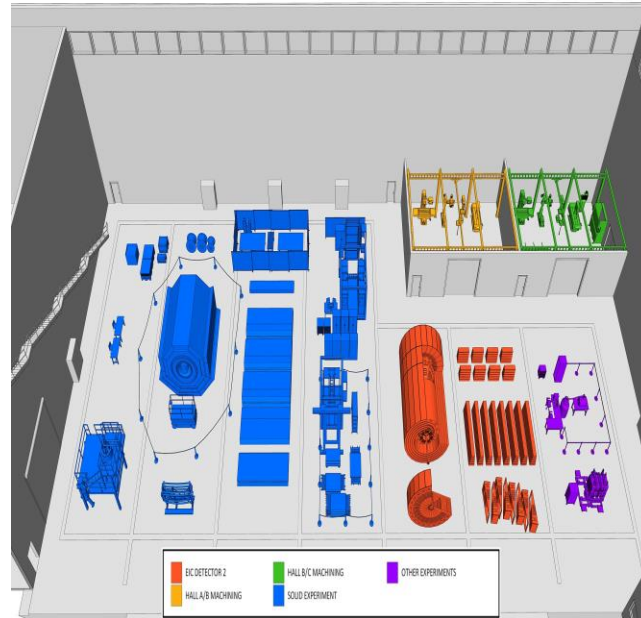


# Thomas Jefferson Infrastructure Improvement (TJII) Project

## Cost Range at CD-0: \$77M - \$98M

Artist's Rendering



### CURRENT CHALLENGES/ISSUES/RISKS

The continued expansion of the SRF mission exceeds the current space and is encroaching on the Physics High Bay area and necessitating the use of off-site leased warehouse space.

### PLANNED CD'S (Preliminary FY Dates)

CD-1	CD-2	CD-3	CD-4
2 <sup>nd</sup> QFY28	1 <sup>st</sup> QFY29	1 <sup>st</sup> QFY29	1 <sup>st</sup> QFY33

### PROGRAM, MISSION, SCOPE

PROGRAM : SLI      LOCATION: TJNAF

**MISSION NEED:** Additional high bay space is needed to meet the growing demand for assembly and testing of Superconducting Radio Frequency (SRF) accelerator components, detectors and target systems for TJNAF experimental program and DOE projects.

### PROJECT SCOPE:

**Test Lab High Bay Annex:** Construct a new two-story facility to increase high bay space capability for Physics Large Scale Assembly and Testing.

**Water Loop Expansion:** Required to supply water to the new TLHBA building and provide upgrades to the potable water utility including construction of a potable water loop and additional valves to allow isolation of the system facilitating connection of new buildings and repair of system leaks.

**Stormwater Upgrade:** Increase conveyance capacity of existing stormwater infrastructure and construct retention basin necessary to address historical flooding in experimental halls A, B, & C.

**Potable Water Improvements:** Add supply redundancy in several locations.