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Abstract

A project is underway at Jefferson Lab to fully renovate all of the SRF research, development, fabrication, processing and assembly facilities. Initiated in 2009 and funded by the US Department of Energy's Science Laboratory Infrastructure program, this work together with construction of a new building to house JLab's Engineering Division and detector electronics group is collectively known as the Technology and Engineering Development Facility (TEDF) Project. The majority of the SRF facilities will be consolidated in a new building with 30,000 square feet (3300 m²) of work space attached to the existing Test Lab. The purpose-built facility integrates fabrication, chemistry, and cleanroom suites and cryomodule assembly lines for convenient, yet flexible operations serving multiple projects in parallel. A robust ultra-pure water system and integrated hazardous materials transfer and neutralization system are included in the project. Construction is underway and Phase 1 move-in is scheduled for early 2012.

Department of Energy – "Science Laboratory Infrastructure" Project

- Investment in facilities for:
- Improved energy efficiency
- Improved life-safety code compliance
- Improved work-flow efficiency
- Improved facility sustainability
- Improved human work environment
- Improved technical quality of facilities for future work Increased build-out capacity









- 90 gpm delivery capacity
- 30 gpm 60°C delivery capacity





ICP (Integrated Cavity Processing) tool concept will integrate multiple process steps with minimum handling in new TEDF facilities

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Cleanroom 20 July 2011

Cryomodule Assembly Area 20 July 2011

