

THOMAS JEFFERSON NATIONAL LABORATORY



Thomas Jefferson National Accelerator Facility (J-Lab) is a Department of Energy, Office of Science laboratory that uses advanced superconducting technology to accelerate a high energy, high current continuous electron beam. The electron beam begins orbiting in an underground racetrack containing a superconducting linear accelerator that drives electrons to higher energies. Magnets steer the beam from one section of the tunnel to another. After a few orbits, the electron beam is split for use in three simultaneous experiments. J-Lab is located in Newport News, Virginia.