

TOUR STOPS THINGS TO DO & SEE!

1 CEBAF Center

This is the place for hands-on science activities.

Watch liquid nitrogen demonstrations in the auditorium every hour on the hour from 10 a.m.-2 p.m. Designed for children ages 6-12, but appropriate for kids of all ages.

Also, you can tour our data center and visit with Jefferson Lab staff representing Technology Transfer, Medical Imaging and the Applied Research Center labs.

2 TED Building & Test Lab Addition

Learn about the lab's sustainability efforts as you stroll through the lab's newest LEED-designed building, the Technology and Engineering Development building, or **TED**.

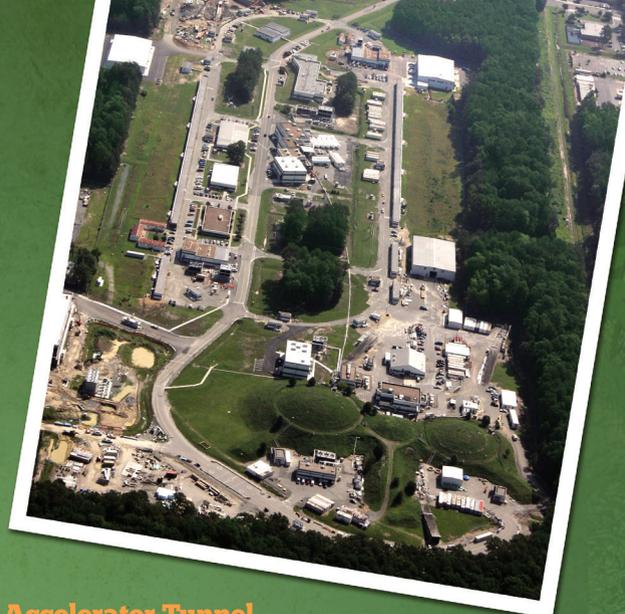
The Test Lab is where Jefferson Lab conducts world-leading research and development for accelerator components. Be among the first to see the new **Test Lab Addition**.

3 Machine Control Center

Visit the nerve center for the lab's Continuous Electron Beam Accelerator Facility (CEBAF), where operators run the machine. Learn how we generate electrons, accelerate them to almost the speed of light, and deliver them to the experimental halls for experiments.

4 Experimental Hall A

Descend underground through the truck ramp and view the the 1500-short-ton detector systems used to study nuclear interactions in Hall A.



5 Accelerator Tunnel

Venture 25 feet underground to see six-ton, 27-foot long cryomodules used to speed the electron beam and two-ton electric magnets used to steer the electron beam. There are two identical tour routes. **Tunnel North** is self-paced with accelerator system experts available to answer questions. **Tunnel South** is a 20-minute guided tour for up to 20 people.

6 Central Helium Liquefier

Take a peek inside our accelerator's refrigeration plant, and see the the 38-foot, 100,000-pound cold boxes recently installed for upgraded operations.

7 Free-Electron Laser Building

Tour the world's highest-power tunable laser and learn about its applications in medical research, micromachining and the search for dark matter.

8 Experimental Hall D

Visit the lab's newest experimental hall and learn how research here may help answer the question: Why is one quark never seen alone?



IMPORTANT INFORMATION

◆ Touring the entire site will take four hours.

◆ Children under 16 must be accompanied by an adult.

◆ Restrooms at Hall A, the Physics displays and S.C.O.T Lot are outdoor portable restrooms, the rest are indoors.

◆ The Accelerator Tunnel is not handicap accessible. All other tour stops are handicap accessible.

Learn more about Jefferson Lab:
visit www.jlab.org
or email jlabinfo@jlab.org
or call (757) 269-7100.

Jefferson Lab

Thomas Jefferson National Accelerator Facility is a nuclear physics research lab. More than 1,300 scientists from more than 250 institutions use Jefferson Lab facilities to study sub-atomic particles known as quarks and gluons. It is one of 10 U.S. research laboratories funded by the U.S. Department of Energy's Office of Science. It is managed and operated for DOE by Jefferson Science Associates, LLC.

JEFFERSON LAB OPEN HOUSE

MAP & INFORMATION

MAY 19, 2012
GATES CLOSE AT 3 P.M.



#JLab2012

JLab Open House 2012

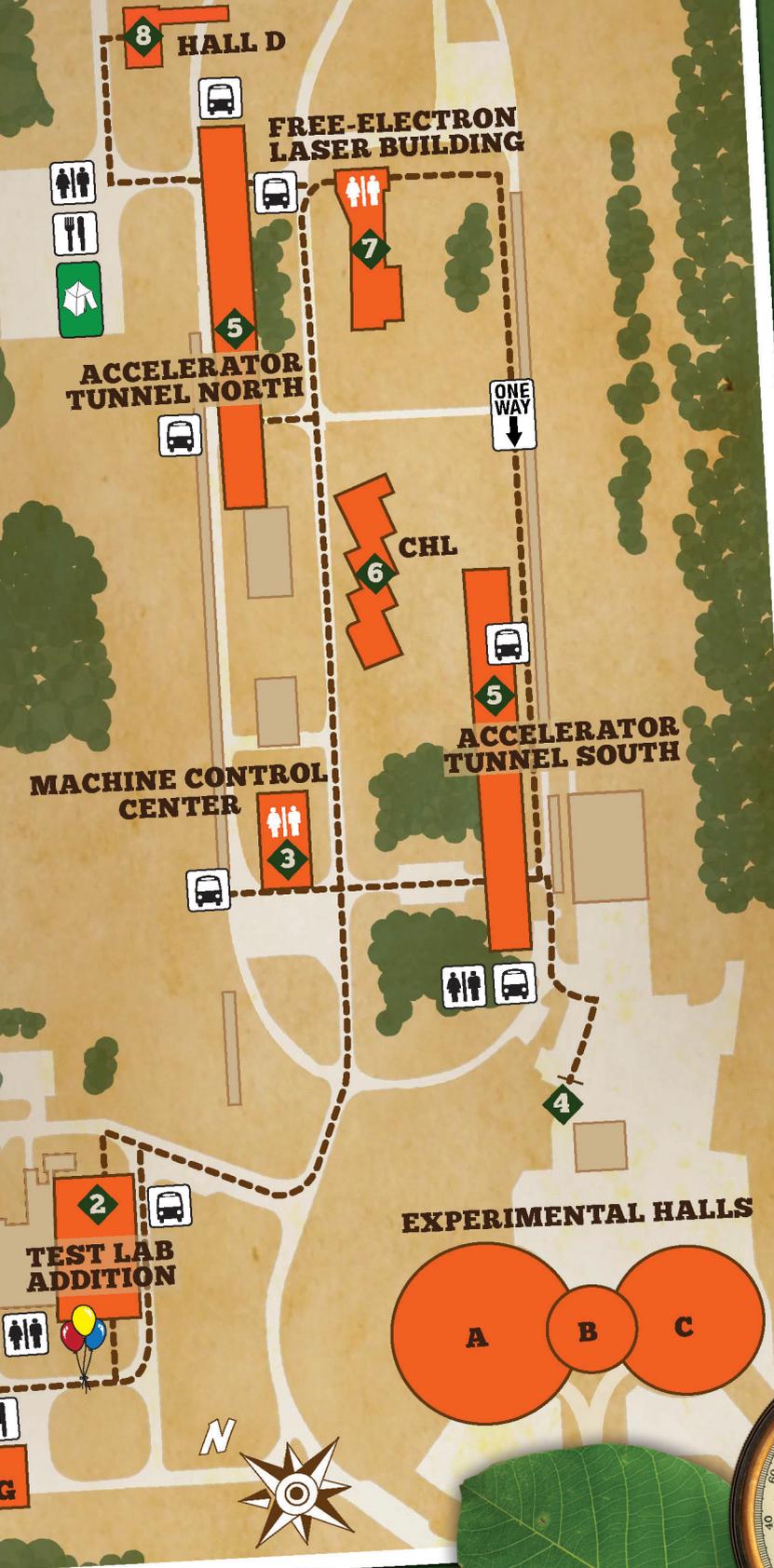


JEFFERSON LAB SITE MAP

Newport News Public Schools
Bus Depot (S.C.O.T. Lot)

LEGEND

<ul style="list-style-type: none"> Handicap Parking Bus Stops Restrooms Refreshments 	<ul style="list-style-type: none"> Kid-Friendly Science First Aid, Information, Lost & Found Physics Displays Walking Paths
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SUGGESTED TOUR ITINERARIES

SEE IT ALL:
Spend 20-30 minutes at each tour stop to learn a little about everything we do. Suggested tour time: 4 hours.

SCIENCE FOR KIDS:
Watch a liquid nitrogen show and join in the fun with hands-on demos from the lab and other local organizations at CEBAF Center 1 and the Test Lab 2. Suggested tour time: 2 hours.

UPGRADED CAPABILITIES:
Learn about the lab's upgrades. Take an in-depth tour of the TED 2, Test Lab 2 and Hall D 8. Suggested tour time: 3 hours.

ACCELERATOR TECH:
Learn about the accelerator technology developed at Jefferson Lab. Take an in-depth tour of the Test Lab 2, Machine Control Center 3, Tunnel 5 and Free-Electron Laser 7. Suggested tour time: 2 hours.

NUCLEAR PHYSICS:
Learn about the research conducted with Jefferson Lab's accelerators by talking to the experimenters from Halls A, B, C, D and local university physics departments. Take an in-depth visit to Hall A 4, Hall D 8 and the Physics display tent. Suggested tour time: 2 hours.

GETTING AROUND

Shuttle buses continuously loop the Jefferson Lab campus and parking lots. Estimated wait times are 5-10 minutes.

You can walk the entire tour route; it is approximately a two-mile loop.

To tour the entire site takes 4 hours.

Children under 16 must be accompanied by an adult.

* Report lost children or medical problems to the nearest event worker.

