Jefferson Lab outreach programs provide people of all ages with information about the lab, as well as how the lab’s mission complements and supports research efforts at other Department of Energy national laboratories. Each year, Jefferson Lab staff reaches more than 13,000 students and 1,200 teachers through the lab’s STEM programs. Interacting with our scientists, engineers and technical staff, they gain insight into the research carried out at the lab, how this research affects us today, and what it could mean for the future.

Outreach efforts include educational, informational and career-development opportunities. As the need for a highly skilled, high-tech workforce grows, Jefferson Lab is helping to inspire and prepare the next generation of scientists and engineers, emphasizing the value of STEM careers and the importance of pursuing research.

PASSION AND PURPOSE

The goals of Jefferson Lab’s outreach programs are to expand the lab’s strong relationships with local and regional communities, advance awareness of the range of research carried out within the DOE national laboratory system, increase interest in STEM career paths for women and minorities, and encourage students to become a part of the next-generation STEM workforce.
Jefferson Lab’s K-12 outreach program serves as a model of excellence within the national laboratory system. The Becoming Enthusiastic About Math and Science (BEAMS) program brings classes of elementary and middle school students to the lab, giving them the opportunity to participate in hands-on, interactive learning with researchers, engineers and technical staff. Physics Fest, another lab outreach program, engages, entertains and informs audiences of all ages as they explore the lab’s scientific mission and the science and technology needed to conduct that research – all while gaining a better understanding of the four phases of matter. Likewise, the lab’s Science Education website provides access to scientific information and learning resources, including Virginia Standards of Learning math and science practice tests and a host of STEM games and activities. These resources are used by students – as Frostbite Theater – a collection of YouTube videos – demonstrates scientific principles and applications in a fun, easy-to-understand format. In many cases, these videos allow students to see and experience science that otherwise would be inaccessible.

PREPARING TOMORROW’S SCIENTISTS & ENGINEERS

Competitive, immersive summer internships at Jefferson Lab provide students with meaningful work and research experience under the guidance and supervision of a mentor, allowing them to apply academic knowledge, learn critical job skills, and gain valuable insight into a world-class research environment. Each summer, dozens of students participate in internship opportunities. Over the years, many of these students have been accepted into prestigious science Ph.D. programs and earned recognition for their work while at the lab.

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