

Economic Impact FY23



Overview

Since 1984, Thomas Jefferson National Accelerator Facility (Jefferson Lab) has operated in Hampton Roads, Virginia. Since its founding, this U.S. Department of Energy (DOE) Office of Science national laboratory has become a premier research institution dedicated to exploring the fundamental nature of matter. Jefferson Lab aims to benefit society through its scientific and technological advancements.

Jefferson Lab conducts world-leading research in nuclear physics using its state-of-the-art particle accelerator, the Continuous Electron Beam Accelerator Facility (CEBAF). Each year, 1,900 researchers perform intricate measurements utilizing one of four large experimental halls associated with the accelerator. Beyond CEBAF, Jefferson Lab houses other research and soon will break ground on the High Performance Data Facility (HPDF), a national resource for data science to fuel the next generation of discovery.

Today, Jefferson Lab is a significant economic driver for Hampton Roads, the Commonwealth, and the nation. It boasts an annual economic impact of \$452 million, supporting 1,888 jobs and contributing \$16 million in state and local taxes. These figures include direct, indirect, and induced economic activity.

Jefferson Lab is managed and operated by Jefferson Science Associates, LLC, (JSA) a wholly-owned subsidiary of the Southeastern Universities Research Association (SURA).

This report estimates the economic and fiscal impact of Jefferson Lab on Hampton Roads and the Commonwealth during Fiscal Year 2023.

Impact on Virginia



Total **economic output** generated for Virginians, representing an **increase** of **46%** from FY2018



Total **users**, representing a **17% increase** from FY2018, with **325** users from Virginia universities



\$169 million of direct spending on goods and services in VA



320 university users, of which **16** are HBCUs and Hispanic-serving institutions



\$16 million in tax revenue generated for the Commonwealth

"Jefferson Lab's new High Performance Data Facility is significant to the region and state because it will be DOE's most powerful computational data facility, which will be a big draw nationally. It will spur more commerce and economic activity in this area."

- Rick Dwyer, Executive Director of the Hampton Roads Military and Federal Facilities Alliance



1,888 jobs supported in the Commonwealth*

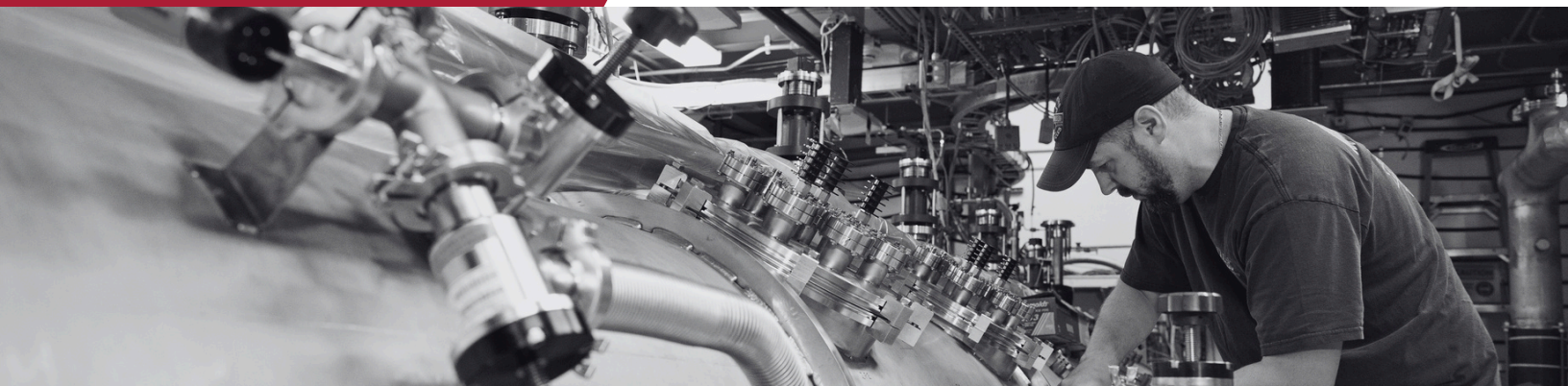


180+ patents to-date since 1984 founding



155 million served via online educational materials

*includes direct, indirect, and induced economic activity



Economic Output for Hampton Roads



1,193 jobs
supported in
Hampton Roads*



\$331 million
generated in
economic output
for Hampton Roads,
a **23% increase**
since FY2018



\$119 million of
direct spending
on goods and
services in region



Estimated 630
scientists brought to
the region, spending
more than \$150
thousand annually on
hotels and food



\$14 million in tax
revenue generated
for Hampton Roads

*includes direct, indirect, and induced economic activity

As a major Hampton Roads employer of professional, scientific, and technical staff, Jefferson Lab supports the region's growing innovation ecosystem and economic vitality.



While all private sector jobs in the region declined 0.2% between FY2018 and FY2023, jobs in the sector supported by Jefferson Lab increased by 6.1%.

6.1% ↑

Professional, Scientific, and
Technical Jobs

0.2% ↓

All Private Sector Jobs

In FY2023, Jefferson Lab employees tended to have greater purchasing power than most private sector jobs, with higher than average weekly incomes.

\$1,748

Professional, Scientific, and
Technical Jobs

\$1,088

All Private Sector Jobs



Undergraduate student Haipeng Wang (left) works alongside Superconducting Radiofrequency Accelerator Physicist Lourdes Leung (left) and Jai Peries (middle) inside the Low Energy Recirculator Facility (LERF)



Accelerator Physicist Anne-Marie Valente-Feliciano (left) and SRF Accelerator Physicist Uttar Pudasini (right) work inside the R&D Thin Film Lab at Jefferson Lab

Connecting Students with Science

Jefferson Lab's award-winning STEM education programs reach students from K-12 through post-graduate school. Each year, Jefferson Lab staff reaches more than **13,000 students and 1,200 teachers** through their STEM programs, including JSAT, a program which builds teachers' skills in the physical sciences. Jefferson Lab hosts Student Intern and Graduate Fellowship programs and collaborates with local, state, and national education institutions to train the next generation of scientists and engineers.

Transferring Technology to Industry

Jefferson Lab recently received over **\$15M** for two projects funded by **DOE's Accelerate Initiative**. One project will develop superconducting microelectronics for AI and quantum computing applications, and a second project will develop compact accelerator technology that can be used for the removal of "forever chemicals" from municipal and waste water. These innovations demonstrate how the technology required to investigate fundamental science questions can translate to impactful applications.

Driving Innovation for Economic Impact

Jefferson Lab has a **global** reach of over **1,900 scientific users** - representing **320 higher education institutions** and **43 countries**. Jefferson Lab plays a key role in supporting the diversity of the regional economy and attracting new businesses. In FY2023, Jefferson Lab created **\$452M in economic output** for the Commonwealth, producing **\$149M in labor income** and **1,888 jobs**. Jefferson Lab is among the region's largest high-tech employers and continues to drive local and regional economic impacts.

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