FERMILAB'S NATIONAL ECONOMIC IMPACT



A national laboratory funded by the Office of Science of the Department of Energy.







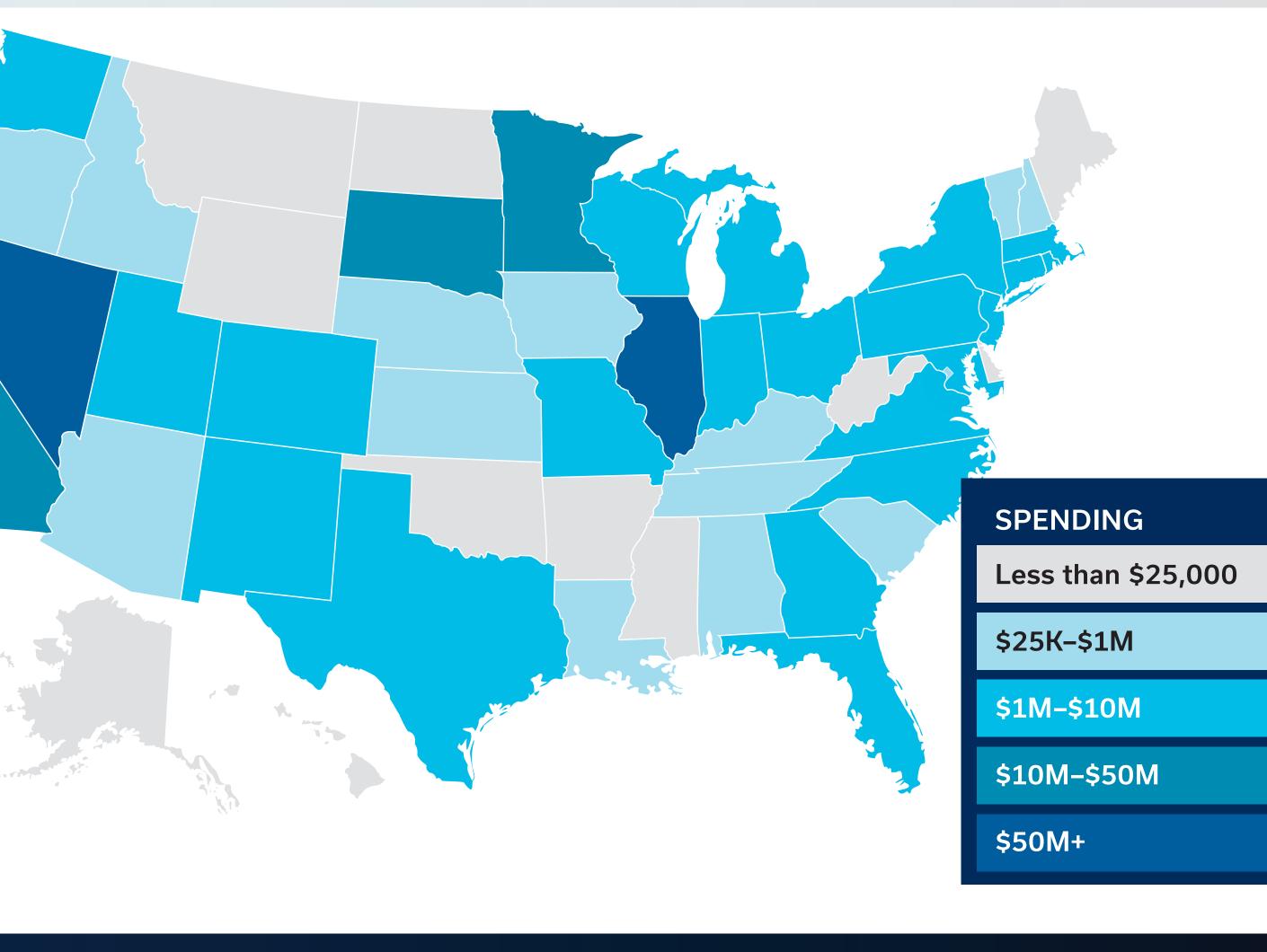


RENOWNED STUDY ACROSS THE NATION

Fermilab's core areas of research are high-energy physics and neutrino science with expanding disciplines in scientific computing, quantum information science and technology, and microelectronics. Fermilab's mission is to solve the mysteries of matter, energy, space and time by building and operating world-leading accelerator and detector facilities and developing new technologies for science that support U.S. industrial competitiveness.

Fermi Research Alliance (FRA), the contractor that manages and operates Fermilab for the Department of Energy, conducted an economic analysis of the lab's impact in each of the 50 states in fiscal year 2022. The metrics involved included (if applicable to each state): the total number of users and affiliates from each state, the number of scientific publications with in-state authors, percent of small business dollars awarded, total procurement dollars awarded, and a summary of the most notable impact.











FERMILAB AT A GLANCE



\$1.6B

IN TOTAL ECONOMIC OUTPUT

1,985

EMPLOYEES

A national laboratory funded by the Office of Science of the Department of Energy.







VISITORS WELCOMED









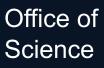
METRICS STATE BY STATE



A national laboratory funded by the Office of Science of the Department of Energy.







STATE IMPACT ALABAMA



The Compact Muon Solenoid experiment relied on an **Alabama-based university to** develop Hadron calorimeter electronics that measure the energies of the quark-based particles.

TOTAL PROCUREMENT **DOLLARS AWARDED**

\$80,970

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

30

NUMBER OF SCIENTIFIC PUBLICATIONS

85

15

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

less than 1%









STATE IMPACT ALASKA



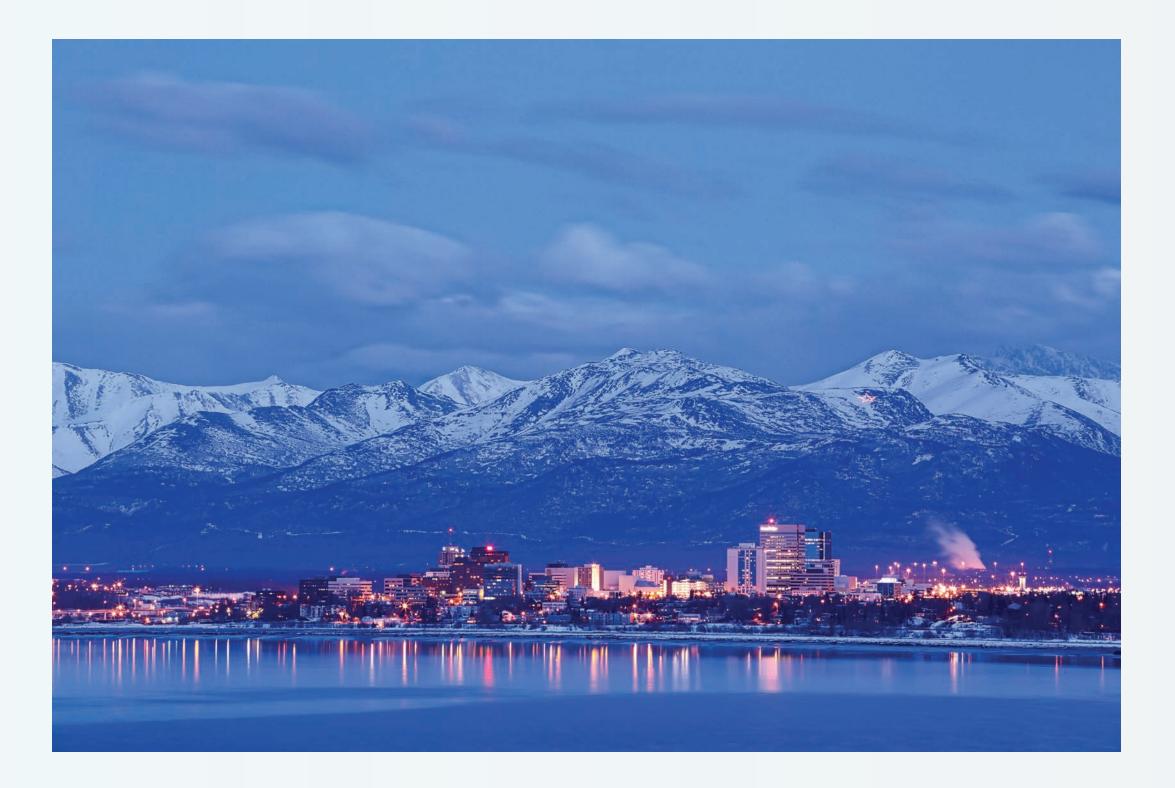
To help build a workforce pipeline of diverse scientific professionals, Fermilab partnered with a non-profit entity that recruited highly qualified intern candidates from underrepresented communities in Alaska.

TOTAL PROCUREMENT DOLLARS AWARDED

less than \$25,000

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF SCIENTIFIC PUBLICATIONS









STATE IMPACT ARIZONA

An Arizona-based fabricator of highly complex circuit boards supported multiple operations and projects for Fermilab.

TOTAL PROCUREMENT DOLLARS AWARDED

\$309,143

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

29

NUMBER OF SCIENTIFIC PUBLICATIONS

93

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

99%

14









STATE IMPACT ARKANSAS



Fermilab's number one priority is safety. To optimize compliance, the laboratory contracted with an Arkansas-based business to advise on federal and industrial standards for the Fermilab fire department.

TOTAL PROCUREMENT DOLLARS AWARDED

less than \$25,000

A national laboratory funded by the Office of Science of the Department of Energy.











STATE IMPACT CALIFORNIA



Fermilab partnered with a world-class quantum computing small business in support of the **Superconducting Quantum Materials and Systems Center.** The company brings extensive expertise in the design of quantum computing systems and fabricates state-of-the-art quantum processors. **Through the SQMS Center, Fermilab and partner** institutions strive to generate scalable superconducting quantum computing systems with commercialization capabilities.

TOTAL PROCUREMENT DOLLARS AWARDED

\$27,534,967

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

546

NUMBER OF SCIENTIFIC PUBLICATIONS

296

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

30%

NUMBER OF STUDENTS AND POSTDOCS

714

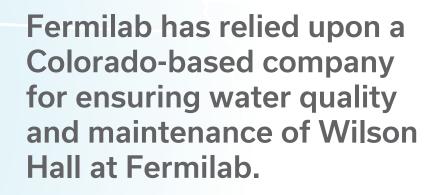








STATE IMPACT COLORADO



TOTAL PROCUREMENT DOLLARS AWARDED

\$3,127,795

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

132

NUMBER OF SCIENTIFIC PUBLICATIONS

147

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

46%

84











STATE IMPACT CONNECTICUT

Fermilab has contracted with a Service-Disabled Veteran-Owned **Small Business in Connecticut** that provides computing software and infrastructure support.

TOTAL PROCUREMENT DOLLARS AWARDED

\$1,573,092

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

39

NUMBER OF SCIENTIFIC PUBLICATIONS

47

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

65%

23







STATE IMPACT DELAWARE

The Deep Underground Neutrino **Experiment and the** muon-to-electron conversion experiment contracted with a **Delaware-based company for fiber** optic network solutions.

TOTAL PROCUREMENT DOLLARS AWARDED

less than \$25,000

A national laboratory funded by the Office of Science of the Department of Energy.



NUMBER OF SCIENTIFIC PUBLICATIONS

9

2

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

9%







IMPACT **DISTRICT OF COLUMBIA**



Fermilab has relied on a District of Columbia-based company to provide online training to support the lab's commitment to workplace safety.

TOTAL PROCUREMENT DOLLARS AWARDED

\$359,460

A national laboratory funded by the Office of Science of the Department of Energy.



NUMBER OF USERS AND AFFILIATES

23

NUMBER OF SCIENTIFIC PUBLICATIONS

95

8









STATE IMPACT FLORIDA



Fermilab partnered with Florida universities in support of the high-luminosity upgrade of the Large Hadron Collider. Florida-based universities also assisted with the design of the 2-4 GHz resonator system for the Axion Dark Matter Experiment.

TOTAL PROCUREMENT DOLLARS AWARDED

\$1,403,378

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

110

NUMBER OF SCIENTIFIC PUBLICATIONS

106

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

42%

79









STATE IMPACT GEORGIA



Compiling data from Fermilab's accelerator experiments requires extensive data storage systems. Fermilab has contracted with a Georgia-based company for supporting information storage solutions to house much of this data.

TOTAL PROCUREMENT DOLLARS AWARDED

\$1,524,495

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

10

NUMBER OF SCIENTIFIC PUBLICATIONS

Δ

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

15%









STATE IMPACT HAWAII



Researchers from a Hawaiian university supported the design and fabrication of the new front-end motherboard for the Deep **Underground Neutrino Experiment.**

TOTAL PROCUREMENT DOLLARS AWARDED

less than \$25,000

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

NUMBER OF SCIENTIFIC PUBLICATIONS

39

8





STATE IMPACT IDAHO



Fermilab worked with a company in Idaho for one of the systems for employment background screening.

TOTAL PROCUREMENT DOLLARS AWARDED



A national laboratory funded by the Office of Science of the Department of Energy.



NUMBER OF SCIENTIFIC PUBLICATIONS

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

less than 1%









STATE IMPACT ILLINOIS

Fermilab leads the Illinois-Express Quantum Network (also referred to as IEQNET) which is a joint research project with Argonne National Laboratory, Northwestern University, and Caltech. IEQNET is a metropolitan-scale quantum network using optical fibers and other quantum and classical technologies to create a quantum communication network. In fiscal year 2022 researchers conducted a successful test between DOE's Fermilab and ANL proving the viability of IEQNET as a quantum communication network and establishing the groundwork for a multi-node network in Illinois.

TOTAL PROCUREMENT DOLLARS AWARDED

\$93,372,227

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

858

NUMBER OF SCIENTIFIC PUBLICATIONS

502

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

44%

NUMBER OF STUDENTS AND POSTDOCS

496











STATE IMPACT INDIANA



The Lattice Quantum Chromo Dynamics Exascale Computing Project collaborated with an Indiana-based university to support an application development program.

TOTAL PROCUREMENT DOLLARS AWARDED

\$5,797,148

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

162

NUMBER OF SCIENTIFIC PUBLICATIONS

106

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

64%

88











STATE IMPACT IOWA



Fermilab is the host laboratory in the United States supporting the International Compact Muon **Solenoid experiment located** at the CERN laboratory near Geneva, Switzerland. Fermilab's U.S. CMS and CMS High Luminosity Large Hadron Collider Detector **Upgrade Project relied on subject** matter experts from multiple **Iowa-based universities in** the execution of their work.

TOTAL PROCUREMENT DOLLARS AWARDED

\$925,862

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

137

NUMBER OF SCIENTIFIC PUBLICATIONS

98

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

6%

73







STATE IMPACT KANSAS



To model safety at the lab, Fermilab has adopted a software system provided by a Kansas-based company to analyze how crowded areas flow.

TOTAL PROCUREMENT DOLLARS AWARDED

\$153,020

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

82

NUMBER OF SCIENTIFIC PUBLICATIONS

105

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

2%

61









STATE IMPACT KENTUCKY



Fermilab prioritizes reviewing life safety codes and uses a Kentucky-based company that reviews Fermilab experiments, particularly those that might present a novel approach to life safety. This added layer of scrutiny guarantees that our experiments not only meet, but often exceed safety industry standards.

TOTAL PROCUREMENT DOLLARS AWARDED

\$76,265

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

NUMBER OF SCIENTIFIC PUBLICATIONS

11

24

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

94%

15







STATE IMPACT LOUISIANA



Fermilab worked with a Louisiana-based university for fabrication of field cage end walls for mechanical testing and installation in a prototype of the **Deep Underground Neutrino Experiment far detector.**

TOTAL PROCUREMENT DOLLARS AWARDED



A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

21

NUMBER OF SCIENTIFIC PUBLICATIONS

10

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

21%

13







STATE IMPACT MAINE



Fermilab expanded lab diversity by working with a Maine-based nonprofit that specializes in connecting underrepresented students with science, technology, engineering and mathematics funding and research opportunities.

TOTAL PROCUREMENT DOLLARS AWARDED

less than \$25,000

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

NUMBER OF SCIENTIFIC PUBLICATIONS

14

2







STATE IMPACT MARYLAND



Fermilab procured a network analyzer calibration kit from a Maryland-based company to conduct calibrations for complex vector networks.

TOTAL PROCUREMENT DOLLARS AWARDED

\$2,130,040

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

57

NUMBER OF SCIENTIFIC PUBLICATIONS

143

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

25%

33







STATE IMPACT MASSACHUSETTS



The Applied Physics and Superconducting Technology **Directorate purchased** an X-ray photoelectron spectroscopy instrument system sourced from a company in Massachusetts.

TOTAL PROCUREMENT DOLLARS AWARDED

\$4,884,914

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

203

NUMBER OF SCIENTIFIC PUBLICATIONS

242

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

44%

NUMBER OF STUDENTS AND POSTDOCS

125











STATE IMPACT MICHIGAN



Fermilab procured core steel from a small business in Michigan for use in four magnets that Fermilab has designed and fabricated for the Oak Ridge National Laboratory **Proton Power Upgrade project.**

TOTAL PROCUREMENT DOLLARS AWARDED

\$1,502,512

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

139

NUMBER OF SCIENTIFIC PUBLICATIONS

197

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

54%

85







STATE IMPACT MINNESOTA

Students from a Minnesota-based university provided technical support in the production phase of the muon-to-electron conversion experiment.

TOTAL PROCUREMENT DOLLARS AWARDED

\$31,845,854

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

129

NUMBER OF SCIENTIFIC PUBLICATIONS

125

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

1%

89









STATE IMPACT MISSISSIPPI

Fermilab partnered with a **Mississippi-based university to** develop an validate a simulation for a simplified muon spectrometer design for the Deep Underground **Neutrino Experiment.**

TOTAL PROCUREMENT DOLLARS AWARDED

less than \$25,000

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

36

NUMBER OF SCIENTIFIC PUBLICATIONS

25

NUMBER OF STUDENTS AND POSTDOCS

23







STATE IMPACT MISSOURI

Fermilab contracted with a company based in Missouri for technical integration support in the development of the Proton **Improvement Plan II accelerator** project. The company also provided construction guidance for the building of the PIP-II cryogenics plant.

TOTAL PROCUREMENT DOLLARS AWARDED

\$989,247

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

13

NUMBER OF SCIENTIFIC PUBLICATIONS

27

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

3%









STATE IMPACT MONTANA



Fermilab contracted with a company based in Montana to support silicon sensor development for the Fermilab **Particle Physics Directorate.** These sensors aid in the detection of electrical charges and further scientific discovery for the laboratory.

TOTAL PROCUREMENT DOLLARS AWARDED

less than \$25,000

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF SCIENTIFIC PUBLICATIONS

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

100%

2









STATE IMPACT NEBRASKA

The Compact Muon Solenoid experiment operates at the CERN laboratory in Switzerland. Fermilab is the host laboratory for the U.S. CMS physicists that support the experiment. U.S. CMS collaborated with a Nebraska-based university to develop the computing subsystems and detectors.

TOTAL PROCUREMENT DOLLARS AWARDED

\$731,318

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

23

77

NUMBER OF SCIENTIFIC PUBLICATIONS

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

2%

O









STATE IMPACT NEVADA



One of Fermilab's primary excavation subcontractors supporting the Deep Underground **Neutrino Experiment being installed** in the Long-Baseline Neutrino **Facility has its U.S. headquarters** in the state of Nevada. This subcontractor estimates a total of **\$3.4M in direct economic impact** associated with their payroll from this project in fiscal year 2022.

TOTAL PROCUREMENT DOLLARS AWARDED

\$51,574,267

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

2

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

less than 1%









STATE IMPACT NEW HAMPSHIRE

In fiscal year 2022, Fermilab procured an electron beam source device from a New Hampshire-based company used to study detectors and evaluate other beam profiles outside of the main injector. This device will aid in evaluating and selecting appropriate detectors for future experiments.

TOTAL PROCUREMENT DOLLARS AWARDED

\$265,229

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF SCIENTIFIC PUBLICATIONS

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

45%









STATE IMPACT NEW JERSEY

A New Jersey-based company supplied Fermilab with superconducting strands for the U.S. High-Luminosity Large Hadron Collider Accelerator Upgrade **Project.** The superconductor acquired by the laboratory was bundled into cable assemblies and inserted successfully into the high-field superconducting quadrupole magnets.

TOTAL PROCUREMENT DOLLARS AWARDED

\$3,975,443

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

107

NUMBER OF SCIENTIFIC PUBLICATIONS

192

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

4%



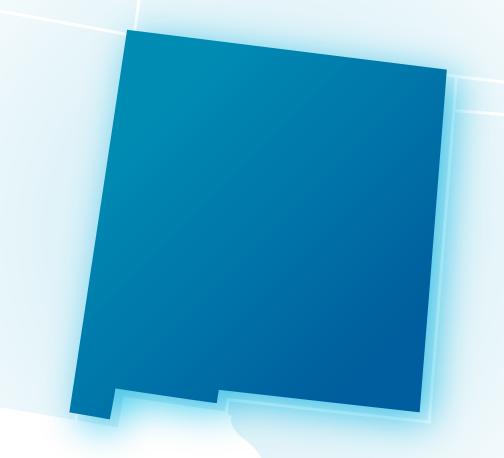








STATE IMPACT NEW MEXICO



A New Mexico-based small business specializing in IT solutions, was used to upgrade computers across the lab starting in January 2022.

TOTAL PROCUREMENT DOLLARS AWARDED



A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

66

NUMBER OF SCIENTIFIC PUBLICATIONS

51

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

87%

13







STATE IMPACT NEW YORK



Fermilab partnered with a world-renowned design and engineering firm based in New York to plan the conventional facilities for the Long-Baseline Neutrino Facility far site. This work includes both the caverns and infrastructure that will be installed during the building & site infrastructure phase of the project.

TOTAL PROCUREMENT DOLLARS AWARDED

\$2,756,997

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

415

NUMBER OF SCIENTIFIC PUBLICATIONS

217

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

31%

NUMBER OF STUDENTS AND POSTDOCS











STATE IMPACT NORTH CAROLINA



The Deep Underground Neutrino Experiment received system engineering services through a collaboration with a North Carolina-based university.

TOTAL PROCUREMENT DOLLARS AWARDED

\$1,029,165

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

45

NUMBER OF SCIENTIFIC PUBLICATIONS

53

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

36%

22







STATE IMPACT NORTH DAKOTA



Fermilab contracted with a North **Dakota-based business to provide** equipment for hauling excavated rock and support logistics transportation needs for the Anode Plane Assemblies from Illinois to South Dakota.

TOTAL PROCUREMENT DOLLARS AWARDED

less than \$25,000

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

NUMBER OF SCIENTIFIC PUBLICATIONS

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES











STATE IMPACT OHIO



Fermilab procured inventory products for Fermilab's Computing Center from an Ohio-based IT hardware supplier.

TOTAL PROCUREMENT DOLLARS AWARDED

\$1,715,962

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

NUMBER OF SCIENTIFIC PUBLICATIONS

192

77

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

28%

54









STATE IMPACT OKLAHOMA



Fermilab has relied upon an **Oklahoma-based company for** stockroom inventory to provide engineers with parts for projects on the spot.

TOTAL PROCUREMENT DOLLARS AWARDED

less than \$25,000

A national laboratory funded by the Office of Science of the Department of Energy.



8

5

NUMBER OF SCIENTIFIC PUBLICATIONS







STATE IMPACT OREGON



Fermilab relied upon expert resources from an Oregon-based university to support research into computing architecture innovation for the Department of Energy's Scientific Discovery through Advanced Computing program.

TOTAL PROCUREMENT DOLLARS AWARDED

\$845,877

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

18

NUMBER OF SCIENTIFIC PUBLICATIONS

16

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

43%









STATE IMPACT PENNSYLVANIA



A Pennsylvania-based supplier of vacuum tubes provided materials needed for the operation of the Fermilab Accelerator.

TOTAL PROCUREMENT DOLLARS AWARDED

\$4,130,523

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

136

NUMBER OF SCIENTIFIC PUBLICATIONS

218

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

16%

84









STATE IMPACT RHODE ISLAND

U.S. CMS collaborated with a Rhode Island-based university and onboarded three graduate student researchers as part of the Large Hadron Collider Physics Center's 2022 LPC **Distinguished Researcher Program.** In this program, students explored topics like dark matter, machine learning, and the Higgs boson.

TOTAL PROCUREMENT DOLLARS AWARDED

\$1,438,254

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

49

NUMBER OF SCIENTIFIC PUBLICATIONS

86

34

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

less than 1%









STATE IMPACT SOUTH CAROLINA



A South Carolina-based company supplied parts for the Quality and Materials Department within the Applied Physics and Superconducting Technology Directorate.

TOTAL PROCUREMENT DOLLARS AWARDED

\$188,769

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

NUMBER OF SCIENTIFIC PUBLICATIONS

11

8

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

6%







STATE IMPACT SOUTH DAKOTA



Fermilab partnered with a local school in South Dakota that has been assisting with the development of the photon detector monitoring system for the **Deep Underground Neutrino Experiment.** In fiscal year 2022, the students tested the long-lifetime qualification of components for the Far Detector 2 Photo Detection System.

TOTAL PROCUREMENT DOLLARS AWARDED

\$11,030,420

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

32

NUMBER OF SCIENTIFIC PUBLICATIONS

28

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

11%

25







STATE IMPACT TENNESSEE

A Tennessee-based company provides administration of a scholarship and tuition assistance program for Fermilab. The company maintains a small independent committee that ranks applicants, issues individual checks, and maintains renewal records.

TOTAL PROCUREMENT DOLLARS AWARDED

\$906,984

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

55

NUMBER OF SCIENTIFIC PUBLICATIONS

148

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

24%

33







STATE IMPACT TEXAS



Fermilab has relied on a Texas-based major supplier of safety equipment for the majority of lab operations and project needs.

TOTAL PROCUREMENT DOLLARS AWARDED

\$5,498,612

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

205

NUMBER OF SCIENTIFIC PUBLICATIONS

195

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

45%

NUMBER OF STUDENTS AND POSTDOCS











STATE IMPACT UTAH



Fermilab has relied on a Utah-based company for low-level radioactive waste disposal services essential for lab operations.

TOTAL PROCUREMENT DOLLARS AWARDED

\$1,129,055

A national laboratory funded by the Office of Science of the Department of Energy.



3

2

NUMBER OF SCIENTIFIC PUBLICATIONS

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES











STATE IMPACT VERMONT

The Muon g-2 experiment relied on a Vermont-based distributor for components essential for research.

TOTAL PROCUREMENT DOLLARS AWARDED



A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF SCIENTIFIC PUBLICATIONS

SMALL BUSINESS **DOLLARS AWARDED**









STATE IMPACT VIRGINIA



Fermilab has relied on a Virginia-based hardware and software company to provide leading-edge technologies for lab operations.

TOTAL PROCUREMENT DOLLARS AWARDED

\$9,853,119

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

179

NUMBER OF SCIENTIFIC PUBLICATIONS

149

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

32%

81









STATE IMPACT WASHINGTON



Fermilab contracted with a Washington-based women-owned small business to obtain material certifications for the Quality and Materials Department of the Applied Physics and Superconducting **Technologies Directorate.**

TOTAL PROCUREMENT DOLLARS AWARDED

\$2,456,768

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

84

NUMBER OF SCIENTIFIC PUBLICATIONS

33

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

13%









STATE IMPACT WEST VIRGINIA

TOTAL PROCUREMENT DOLLARS AWARDED

less than \$25,000

A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF SCIENTIFIC PUBLICATIONS







STATE IMPACT WISCONSIN



Fermilab subcontracted work with a university in Wisconsin for calibrating ion chambers and aiding operations.

TOTAL PROCUREMENT DOLLARS AWARDED



A national laboratory funded by the Office of Science of the Department of Energy.

NUMBER OF USERS AND AFFILIATES

92

NUMBER OF SCIENTIFIC PUBLICATIONS

162

PERCENTAGE OF PROCUREMENT DOLLARS AWARDED TO SMALL BUSINESSES

3%

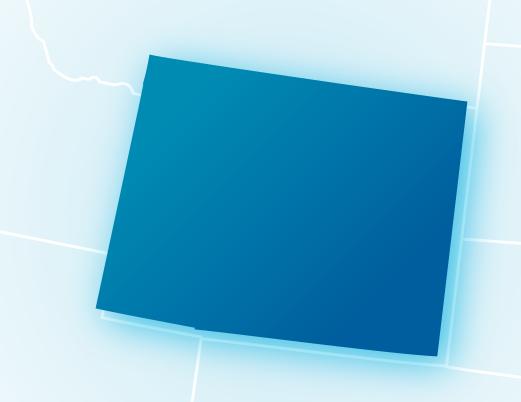








STATE IMPACT WYOMING



Fermilab contracted with a Wyoming-based company to download and summarize historical meteorological data for the Long-Baseline **Neutrino Facility.**

TOTAL PROCUREMENT DOLLARS AWARDED

less than \$25,000

A national laboratory funded by the Office of Science of the Department of Energy.









GLOSSARY

NUMBER OF USERS AND AFFILIATES

This includes the total number of users and affiliates who used Fermilab's resources for their research in fiscal year 2022.

NUMBER OF SCIENTIFIC PUBLICATIONS WITH IN-STATE AUTHORS

This includes the number of Fermilab-related scientific publications with in-state authors.

A national laboratory funded by the Office of Science of the Department of Energy.

SMALL BUSINESS DOLLARS AWARDED

This is the percentage of total procurement dollars awarded in the state that went to small businesses.

NUMBER OF STUDENTS AND **POSTDOCS PER STATE**

This includes the total number of fiscal year 2022 undergraduate/graduate interns and postdoctoral candidates from each state.





