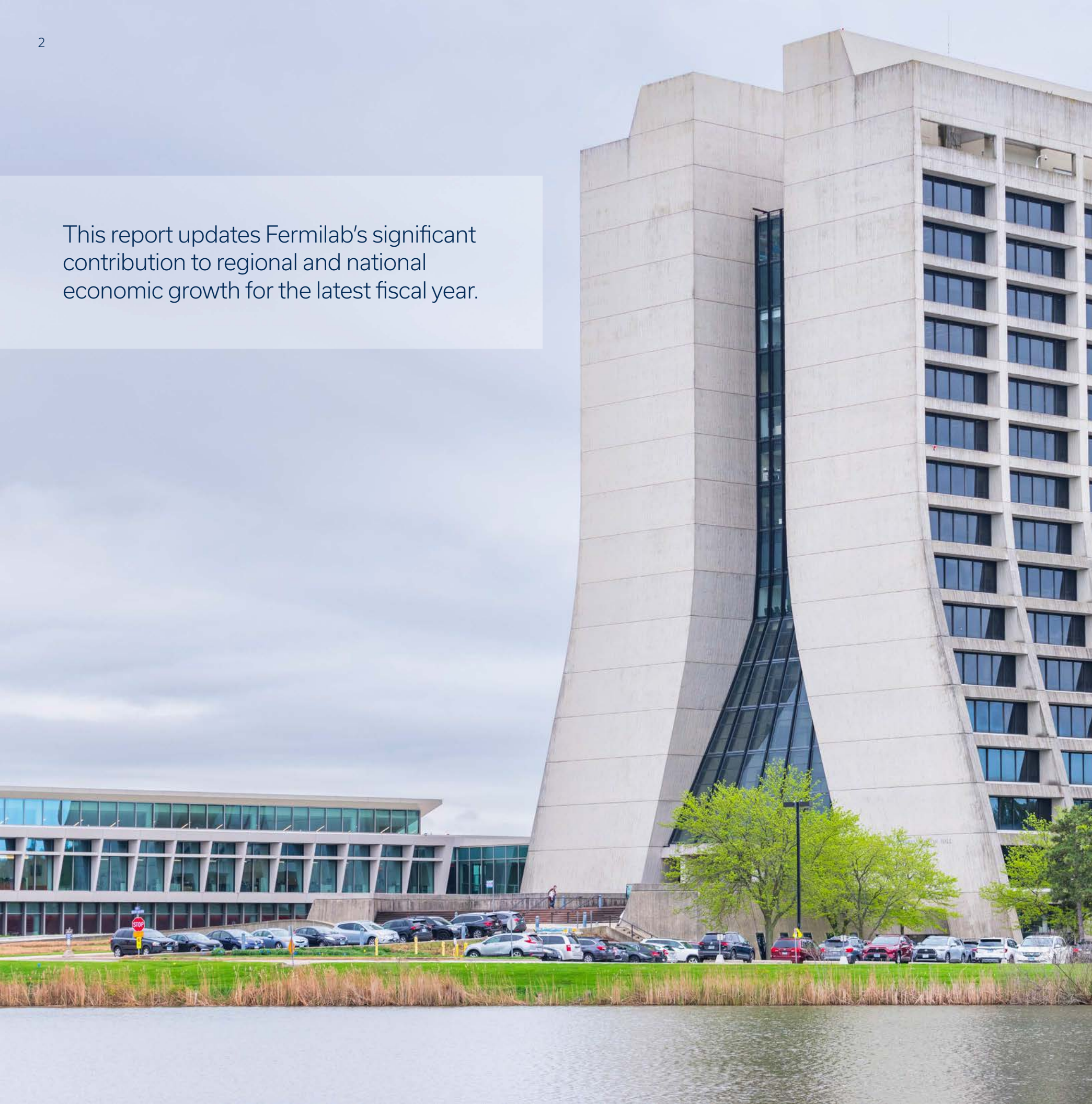


An aerial photograph of the Fermilab complex. The main building is a large, modern structure with a prominent, curved glass facade. In the foreground, there is a large parking lot filled with cars, and a circular landscaped area with a green lawn and a white outline of the Fermilab logo. The background shows a dense forest of green trees under a clear sky.

Economic Impact Summary

This report updates Fermilab's significant contribution to regional and national economic growth for the latest fiscal year.



Introduction

Fermilab is America's particle physics and accelerator laboratory. Day-to-day management and operation of the laboratory is the responsibility of Fermi Research Alliance, LLC, a partnership of the University of Chicago and Universities Research Association, Inc.

This study presents the economic impact of Fermilab operations on the states of Illinois and South Dakota.

Economic impacts are separated into the following three categories:

Direct effects: The primary revenue brought into the state by Fermilab

Indirect effects: The business to business transactions that originate from FNAL expenditures

Induced effects: Created by households' spending and business transactions that occur due to FNAL employment

Direct effects
Indirect effects
+ Induced effects

= **Total economic impact**

Summary of impacts

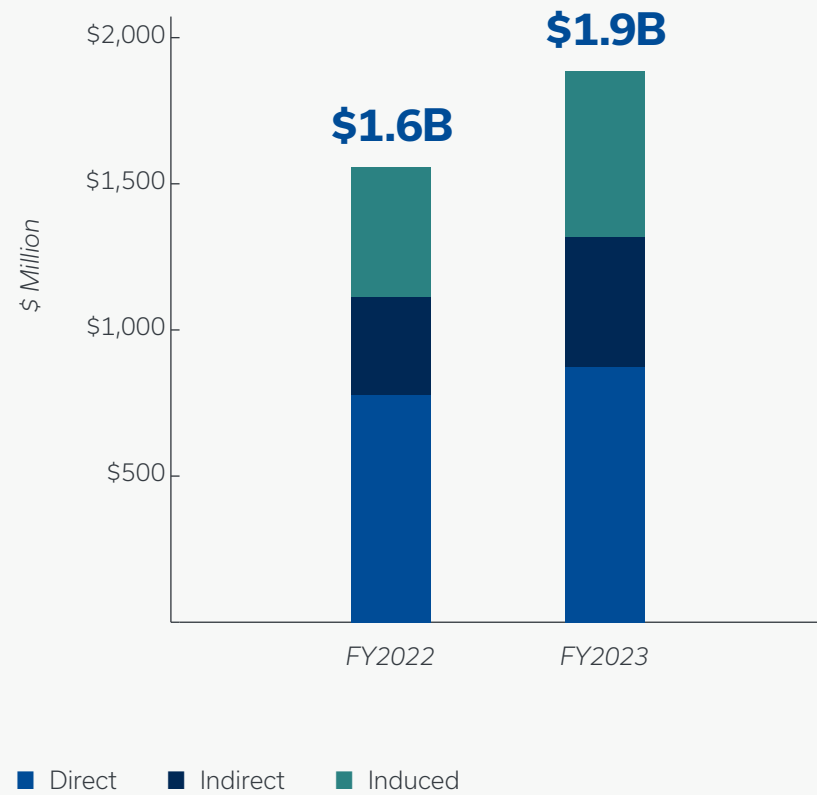
Operations and construction impacts for Illinois and South Dakota

\$1.9 BILLION

Fermilab's total economic output in FY2023 — a **19%** increase from FY2022

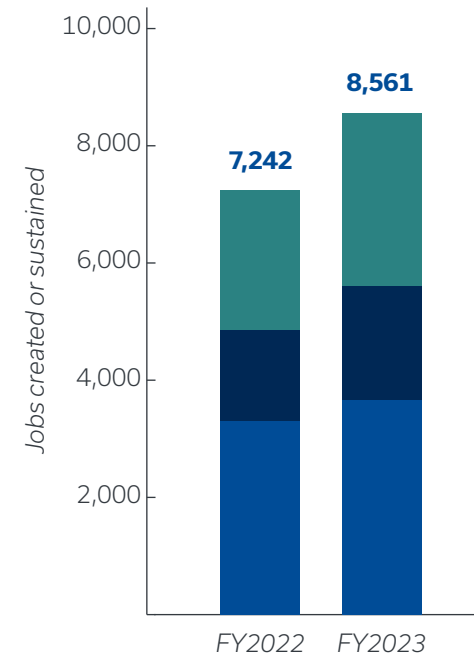


OUTPUT

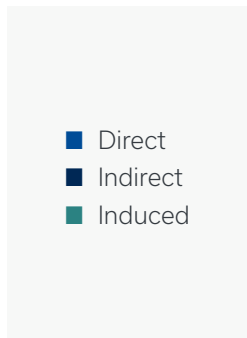
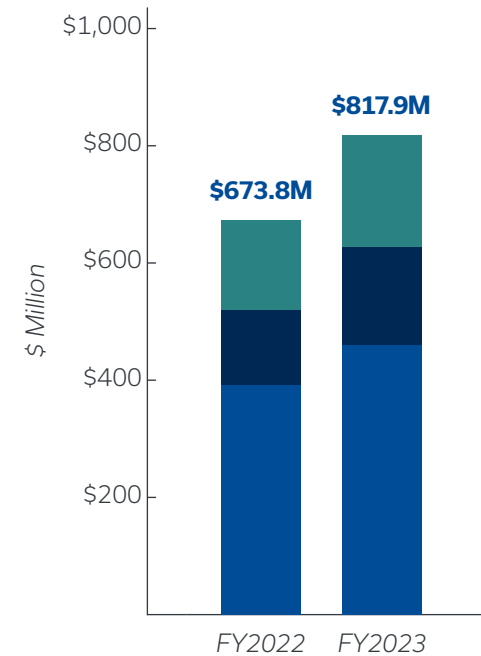


The laboratory's economic impact increased by 19% over last fiscal year. This is comprised of spending on operations, research activities and construction. The economic impact is expected to continue to grow in future years.

EMPLOYMENT



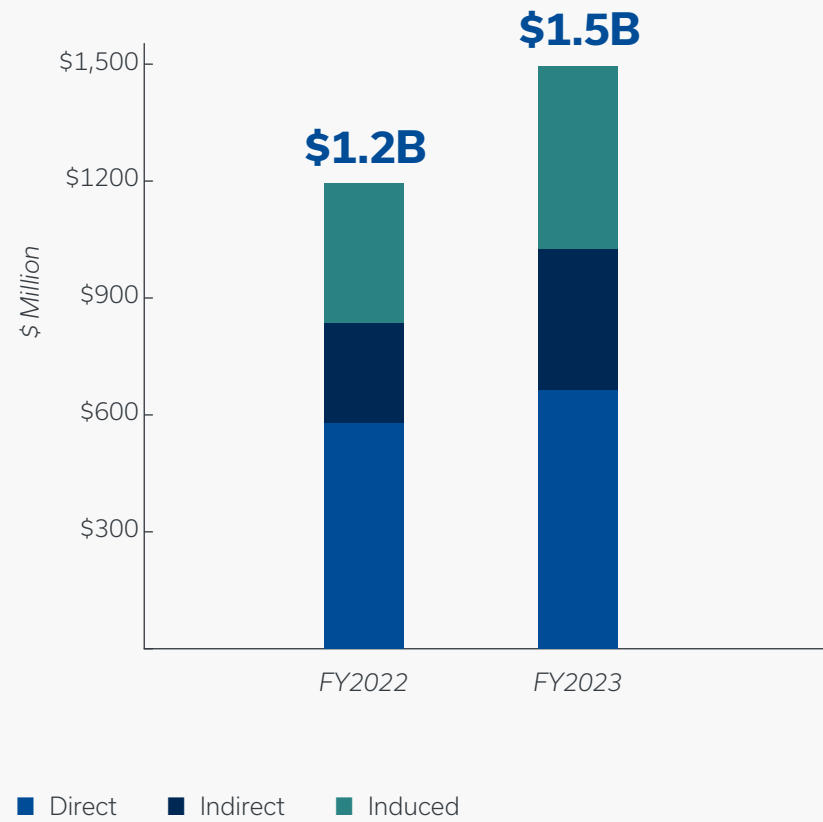
HOUSEHOLD INCOME



Impact of operations

Operations impacts for Illinois and South Dakota

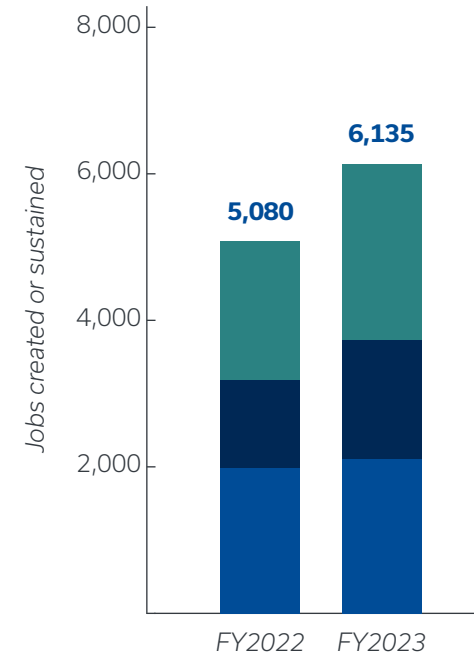
OUTPUT



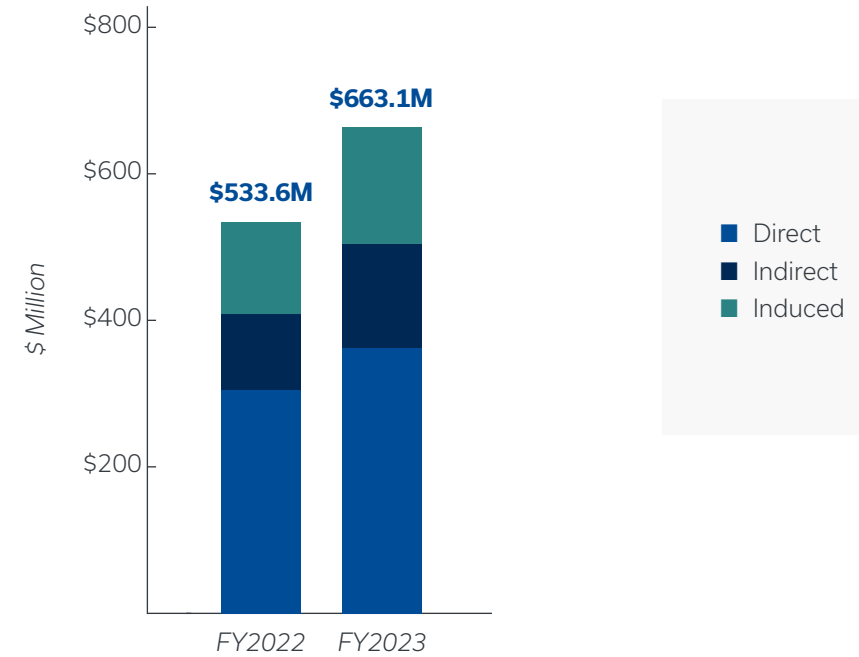
Laboratory operations alone (removing construction activities) had a strong growth in economic impact. With the overall growth of employment and household income impacts, the lab is a solid presence in the communities where it operates.



EMPLOYMENT



HOUSEHOLD INCOME



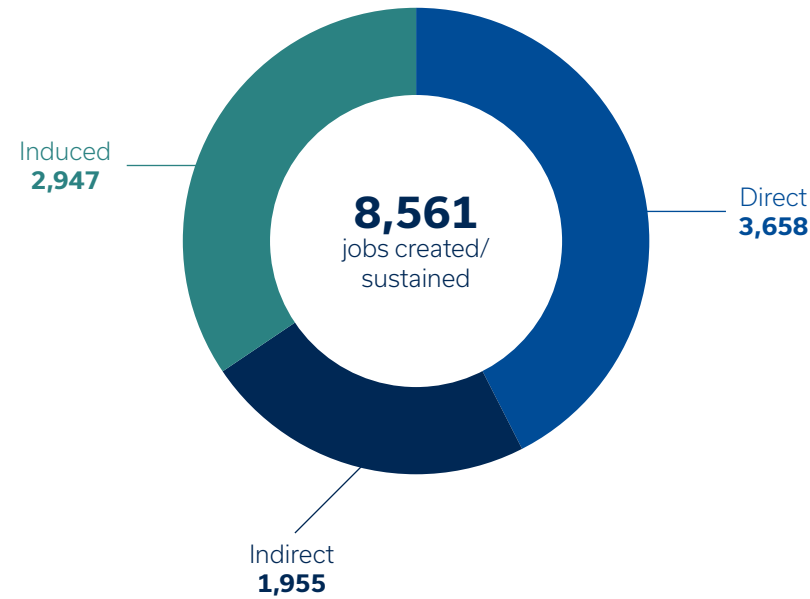
\$1.5 BILLION

Fermilab's total economic output from operations in FY2023 — a **25%** increase from FY2022



Economic employment impact

Fermilab's economic employment impact increased by **18%** from FY2022



Impact of visitors

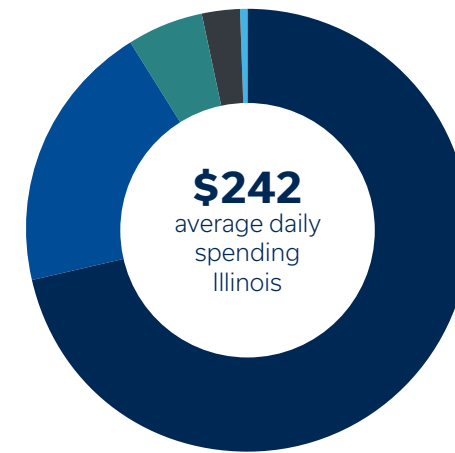
Fermilab is unique in that its science brings a significant number of visitors to the area. Scientists and researchers from around the world come to Batavia and Lead to collaborate with our team.

Additionally, our robust educational programs and science center draw visitors to the Fermi site in Batavia year-round.

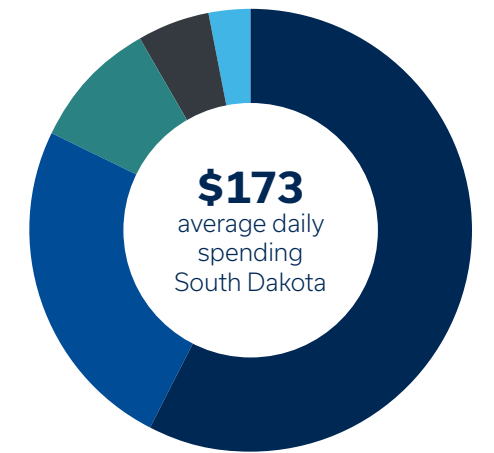
8,284
Total unique Fermilab visitors in FY2023

7,499
Batavia, Illinois

785
Lead, South Dakota



- Lodging
- Food and beverage
- Taxi and rideshare
- General merchandise
- Arts and entertainment



“

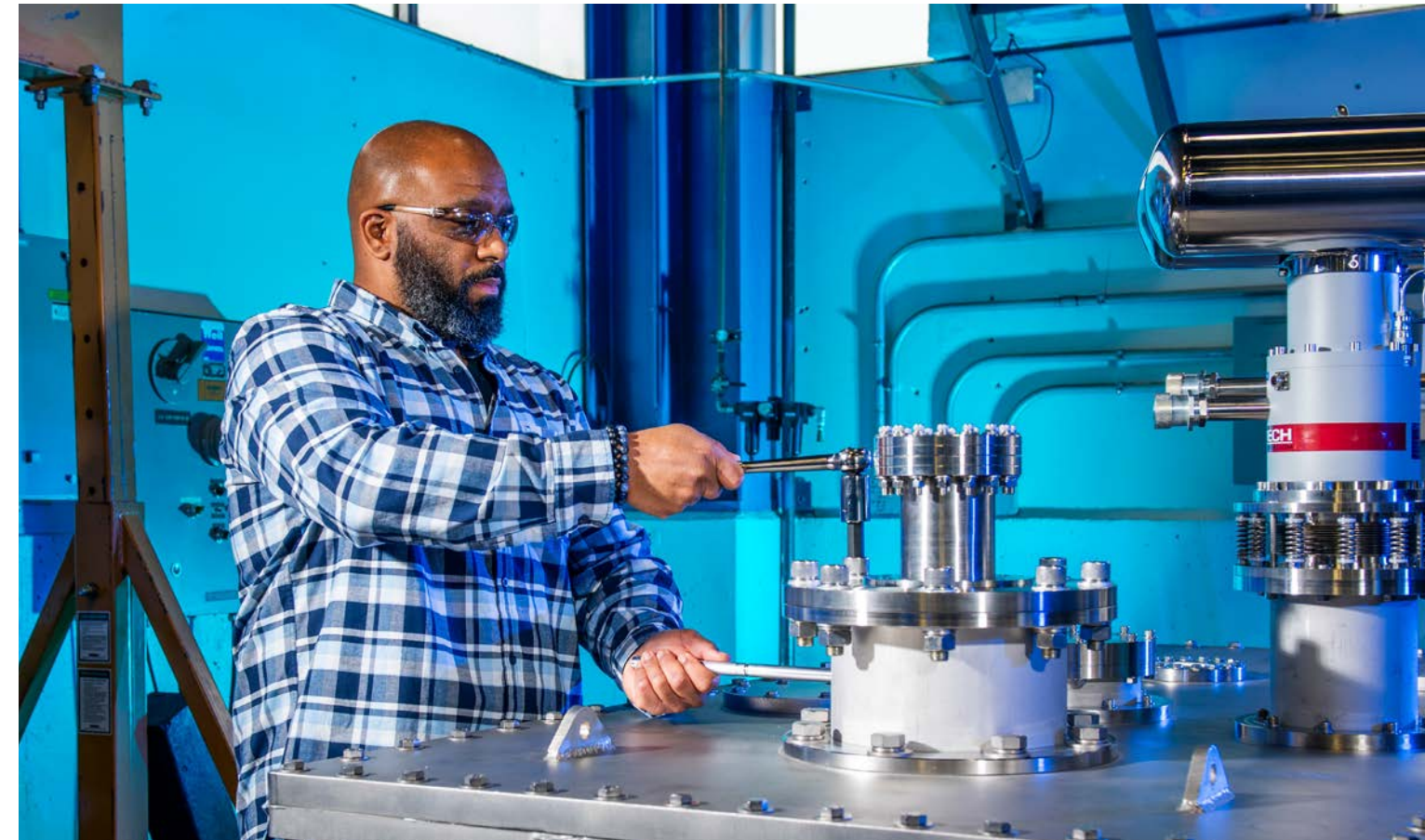
Nearly **\$17.5 million** generated in total economic output based on visitors to Fermilab in Batavia, Illinois in FY2023.



Value generated through international partnerships

The nature of science is borderless. Collaborations and partnerships among scientists and institutions are key in pushing the boundaries of what we know. Scientists and researchers from around the world come to Fermilab to as part of their research in high energy physics, neutrino science and quantum science.

Fermilab welcomed **3,200** researchers from **50** different countries in FY2023.



Industry partnerships and technology transfer

Industry partnerships and technology transfer are critical objectives of all DOE national laboratories. Historically, the science at Fermilab has been far in advance of obvious commercial applications.

As the lab expands its research into quantum information science, microelectronics, machine learning and artificial intelligence, it has reached a significant stage in operations. These

expanded areas of research are being seen as opportunities for the private sector to engage in partnerships and collaborations to move the technologies towards commercial application.

Through strategic partnership with industry, Fermilab is able to realize viable commercial applications for scientific discoveries.

60	Active CRADA total
29	Active SPP total
70	Active patents

