Fermilab

May 22, 2025

The latest news from Fermilab

Office of Communication
Community Advisory Board

U.S. DEPARTMENT of ENERGY
Fermi National Accelerator Laboratory is managed by FermiForward for the U.S. Department of Energy Office of Science

FERMI NATIONAL ACCELERATOR LABORATORY

Spring at Fermilab welcomes the arrival of two baby bison

The first baby bison was born on April 21. To date there are 16 new calves.

From the newsroom

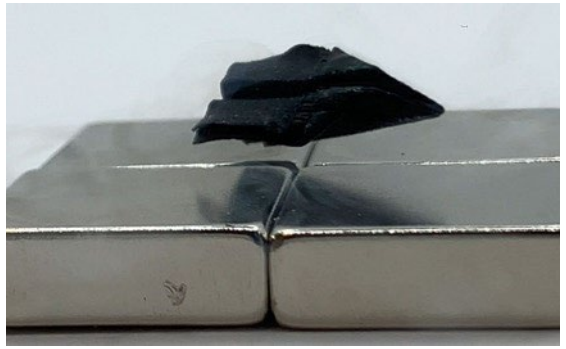
From the newsroom

8 stories were posted in the Fermilab newsroom between March 28 – May 22

Fermilab-funded research demonstrates new method for 3D printing high-temperature superconductors
April 28, 2025
1,200 views

Cristian Boffo appointed director of Fermilab's particle accelerator upgrade project
April 21, 2025
742 views

Engineering innovation meets history in groundbreaking neutrino experiment hosted by Fermilab
April 8, 2025
520 views



Sample superconducting 3D printed material

PIPII at Fermilab

The aircart Maggie II used to move steel beams doe DUNE

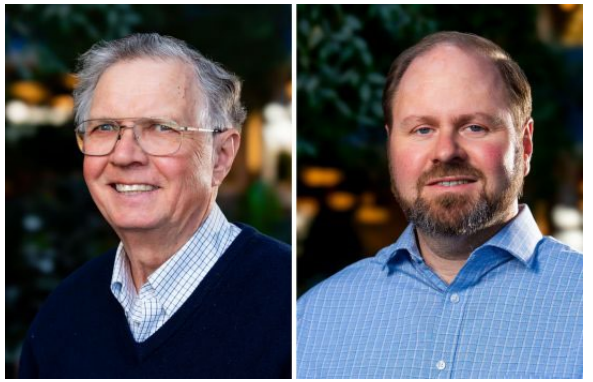
From the newsroom

Fermilab hosts 2025 CMS Data Analysis School for next generation of collider physicists
April 3, 2025
359 views

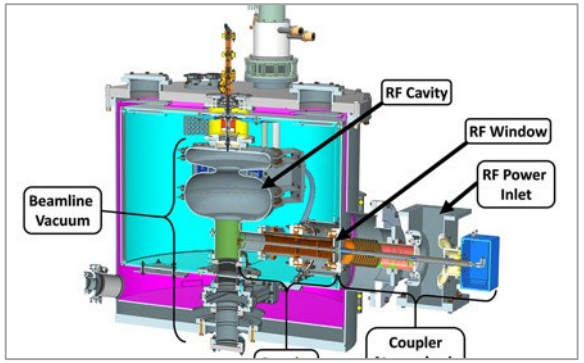
Cristian Boffo appointed director of Fermilab's particle accelerator upgrade project
April 21, 2025
742 views

New ceramic material for high-power particle accelerators enhances reliability
May 6, 2025
351 views

CMS Data Analysis School



Peter Garbincius, scientist emeritus and senior scientist Robert Zwaska



A cross section of an SRF accelerator

From the newsroom – press releases

5 new press releases since May 28

[Fermilab opens applications for 2025 Global Physics Photowalk contest]
May 15, 2025
397 views

[Fermilab researchers advance quantum sensing for future detectors]
May 7, 2025
575 views

[Spring at Fermilab welcomes the arrival of two baby bison]
April 21, 2025
2,200 views

[Fermilab-led computing project receives large 2025 DOE INCITE award]
April 9, 2025
529 views

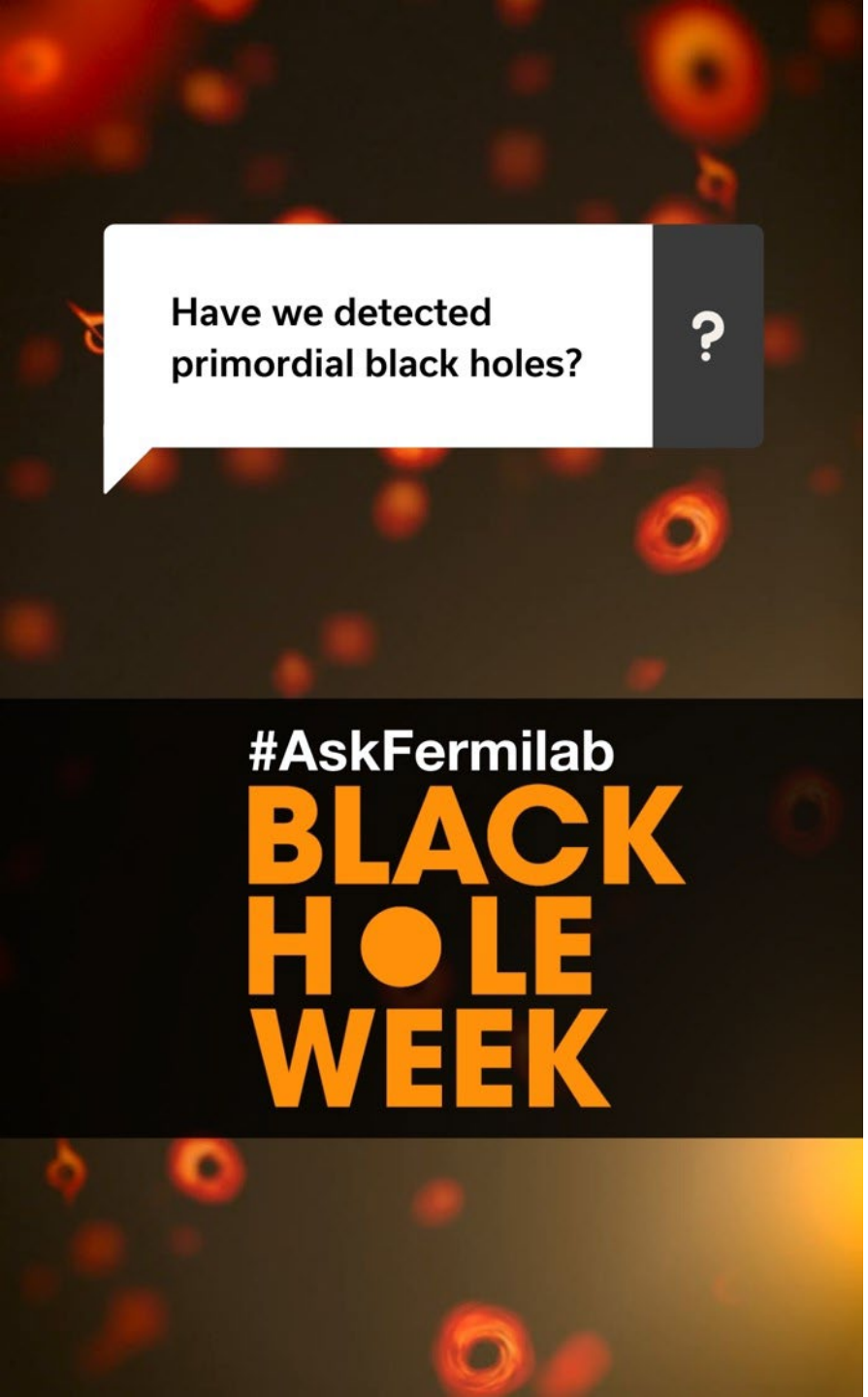
[Sowjanya Gollapinni elected co-spokesperson for DUNE collaboration]
April 2, 2025
358 views

The SMSPD research team.

The first bison calf was born April 21, 2025.

The new DUNE co-spokesperson, senior scientist Sowjanya Gollapinni

Social media



#AskFermilab: Black Holes

Fermilab celebrated Black Hole Week with a series of video answering questions from our audience.

- Videos published May 5-9
- Received over 140 questions between April 15-19
- In total the Shorts received over 140k views

Top posts by views

fermilab
Fri 3/28/2025 3:05 pm CDT

Exciting update! All the steel that will house one of the detectors for #DUNEscience has arrived. 🙌 In total, the steel weighs 3,282 U...

Views 46,274

Fermi National Accelerator ...
Wed 4/23/2025 11:05 am CDT

Have you herd the news? 🦬 Two baby bison were born this week at Fermilab! 🙌 Visitors are encouraged to stop by to see the newest...

Impressions 42,286

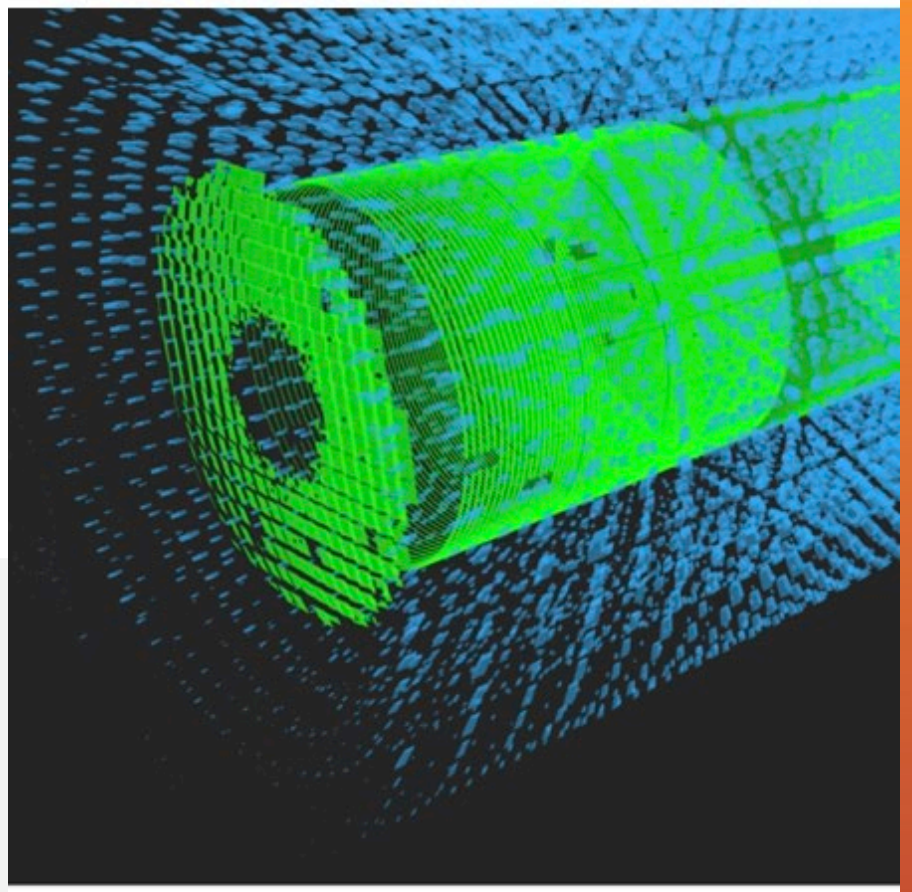
fermilab
Thu 4/24/2025 12:54 pm CDT

Happy #NationalPhysicsDay! What are we made of? How did the universe begin? What secrets do the smallest, most elemental...

Views 24,387

Special mention: CMS Splashes video

- Collaborated with the CMS experiment on Instagram
- Received a total of 25k views across YouTube and Instagram



Fermilab In the News

DUNE In the News

BBC

Scientists in a race to discover why our Universe exists

2 days ago

Share Save

Pallab Ghosh
Science Correspondent • @BBCPallab

Gwyndaf Hughes
Science Videographer and Producer

A vast cavern in South Dakota shielded from the outside world will house sensitive equipment to detect tiny changes in sub-

g1

Dune: the international megaproject that attempts to unravel the origin of the universe and Brazil's fundamental participation

Based in the US, the R$20 billion experiment has a grand structure and aims to answer questions about the formation of black holes and the emergence of matter.

DUNE In the News

Black Hills Pioneer

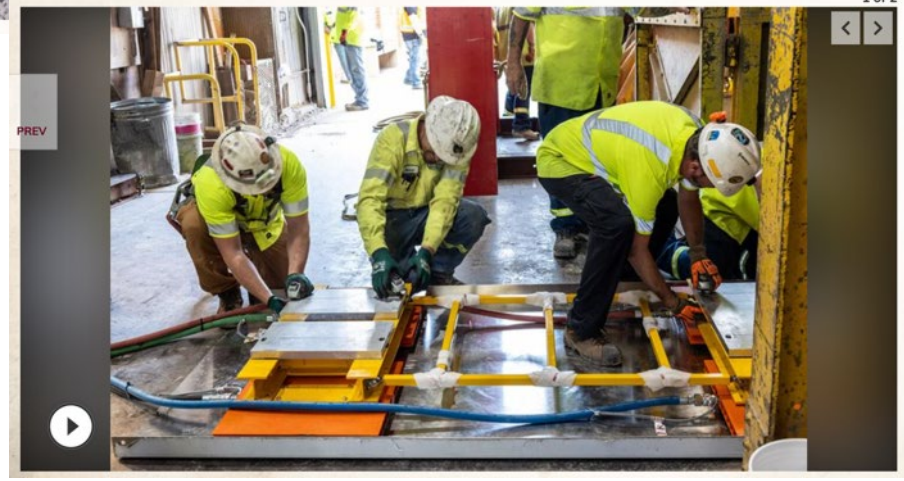
Fermilab actively seeking housing for personnel

By Wendy Pitlick Black Hills Pioneer Apr 1, 2025 0

Engineering innovation makes history in groundbreaking neutrino experiment hosted Fermilab

Apr 11, 2025 0

1 of 2



SDPB

SURF to lower beams for DUNE cryostats starting next year

SDPB | By Lee Strubinger
Published May 12, 2025 at 10:36 PM CDT

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Quantum news

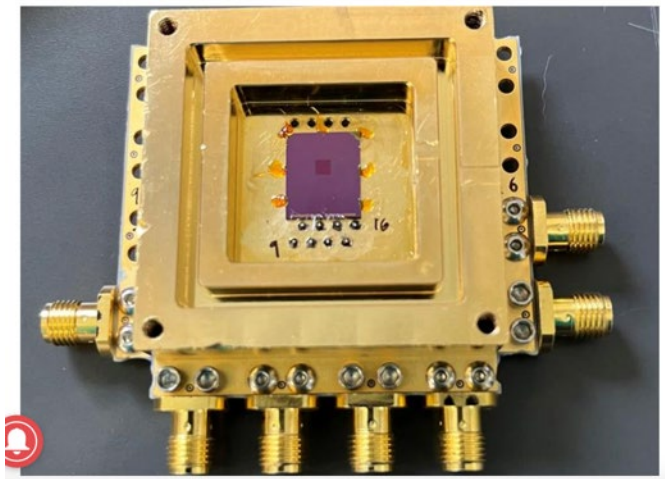
INNOVATION NEWSNETWORK

QUANTUM INSIDER powered by RESONANCE

Quantum sensors power the future of particle physics

Quantum | 28th April 2025

Share



VoxelMatters

Researchers 3D print high-temperature superconductors

The Fermilab-funded technique is currently awaiting US patent approval

Edward Wakefield · April 29, 2025 · 4 minutes read

A sample of a superconductor 3D printed from a single seed — this one shaped like a paper airplane — is shown levitating over a magnet. Credit: Dingchang Zhang. Source: Fermilab.

INTERESTING ENGINEERING

New 4D quantum sensors may help physicists trace the birth of space and time

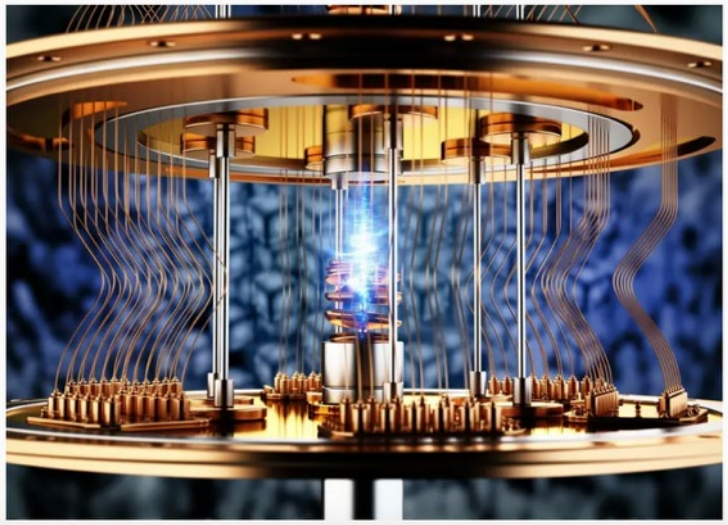
The search for exotic particles and dark matter could get a major boost from 4D quantum detectors.

Updated: Apr 24, 2025 04:10 PM EST

Aamir Kholam

a month ago

0



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Fermilab's first bison, April 21

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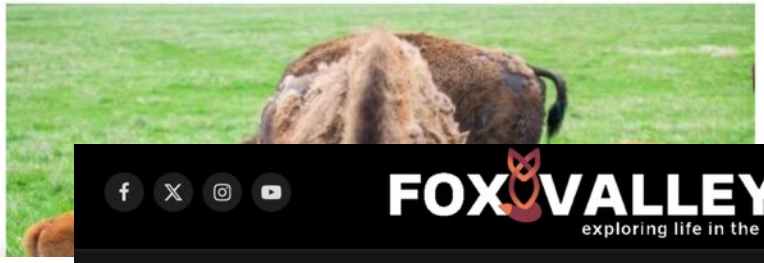
Pets and Animals

Fermilab welcomes first two baby bison of the season



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exploring life in the fox
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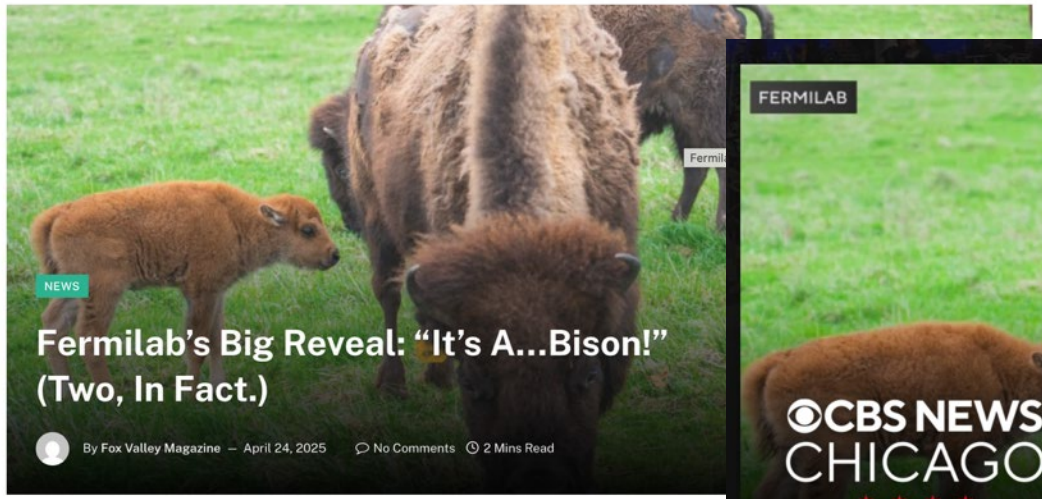
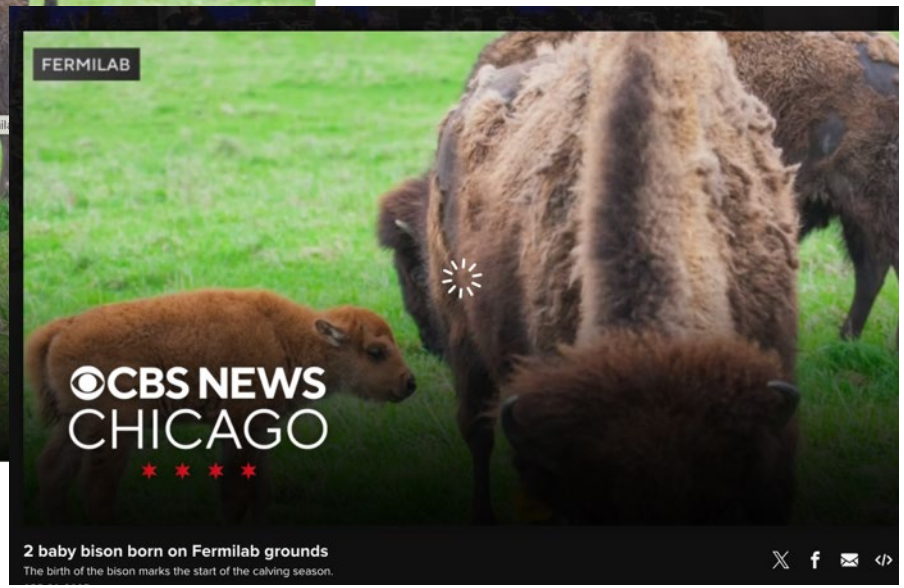


Chicago Tribune

First two baby bison of the spring born to herd at Fermilab in Batavia

CBS NEWS



Patch

Batavia, IL

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Science news

Duluth News Tribune
CONNECTED · ENGAGED · ENTRUSTED

Northlandia: How northern Minnesota aids study of ghost-like particles

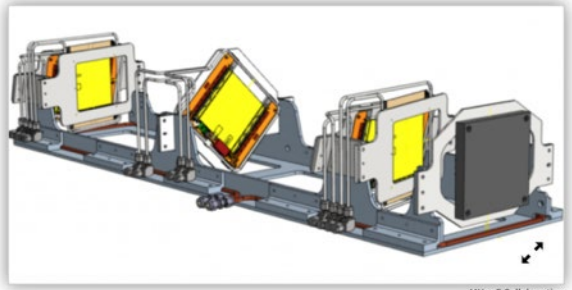
For more than two decades, a particle beam has been aimed at the Arrowhead, where researchers have been trying to understand neutrinos. But it will soon be pointed to South Dakota.

Physics

Future Muon Experiment Could Search for Dark Matter

April 22, 2025 • *Physics* 18, s50

The planned MUonE experiment could—in addition to studying the muon's magnetic moment—search for dark matter particles.



MUonE Collaboration

CERNCOURIER | Reporting on international high-energy physics

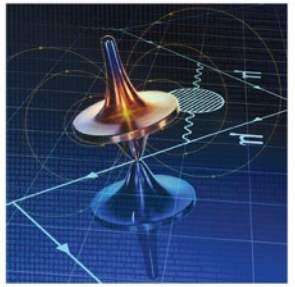
Physics ▾ | Technology ▾ | Community ▾ | Magazine

STRONG INTERACTIONS | FEATURE

Do muons wobble faster than expected?

26 March 2025

With a new measurement imminent, the ***Courier*** explores the experimental results and theoretical calculations used to predict 'muon g-2' – one of particle physics' most precisely known quantities and the subject of a fast-evolving anomaly.



Vacuum fluctuation The fine details of "hadronic vacuum polarisation" could be the difference between reinforcing the SM and challenging it. Credit: D Zemba, Pennsylvania State University

Fundamental charged particles have spins that wobble in a magnetic field. This is just one of the insights that emerged from the equation Paul Dirac wrote down in 1928. Almost 100 years later, calculating how much they wobble – their "magnetic moment" – strains the computational sinews of theoretical physicists to a level rarely matched. The challenge is to sum all the possible ways in which the quantum fluctuations of the vacuum affect their wobbling.

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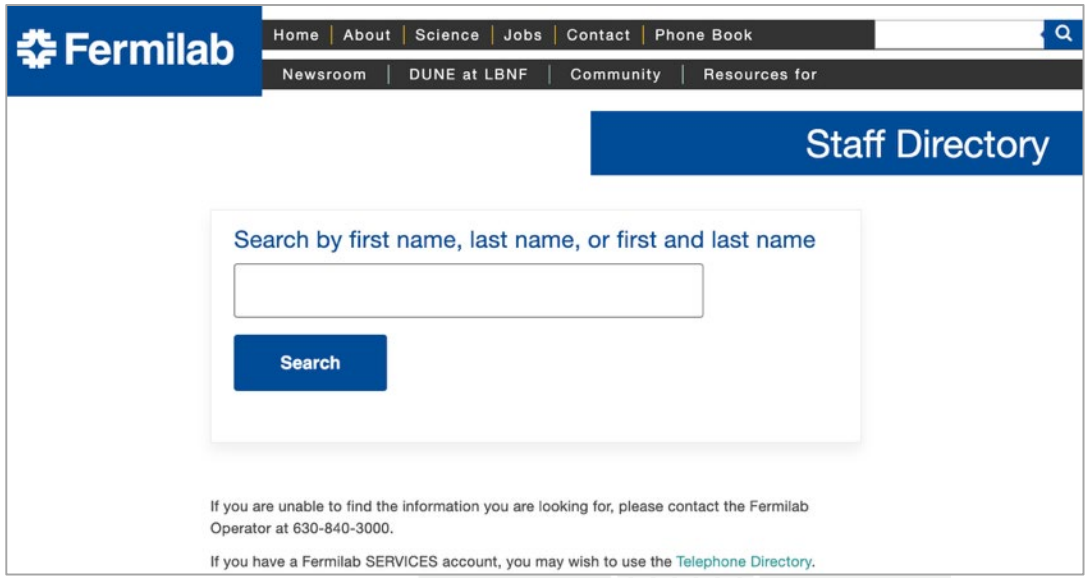
Website updates

Website updates – New Phone Book for the public



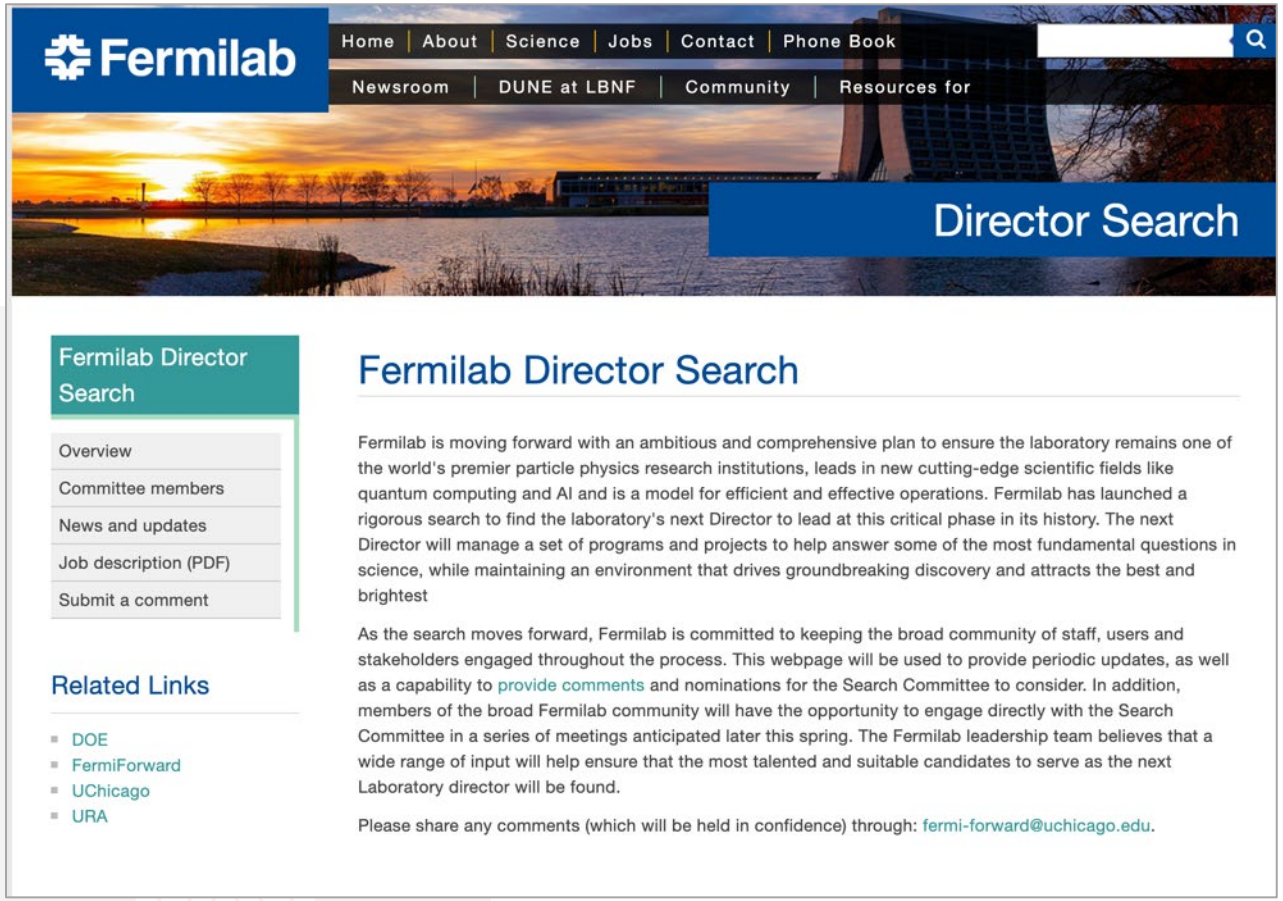
- In April 2025, Fermilab launched a new public-facing Phone Book at https://www.fnal.gov/staff-directory/, reflecting the lab's ongoing commitment to protecting personal information. To access it, use the convenient "Phone Book" link located in the top navigation of each lab webpage.
- The updated staff directory allows the public to securely view an employee's name, primary work number, and to submit messages via a contact form, without revealing the employee's actual email address. This approach balances transparency with data protection. We appreciate your support as we enhance our cybersecurity practices.

Website updates – New director search webpage

A new page is live on the Fermilab website to keep the Fermilab community updated on the search for the lab next director.

This effort reflects the commitment of Fermi Forward Discovery Group and Fermilab leadership to support robust engagement and an inclusive process.

The goal is to complete the search and have the new laboratory director in place by the end of the year.

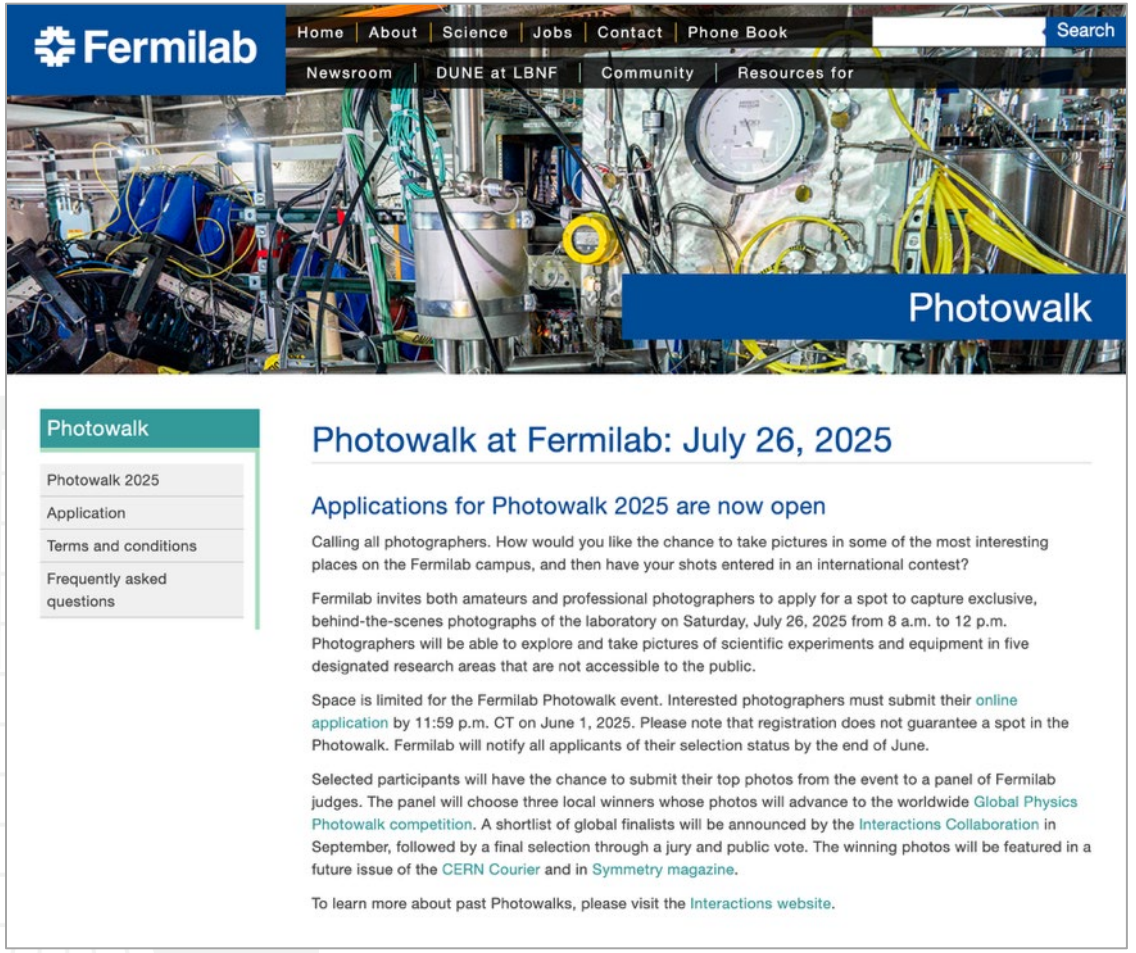


Website updates – New Photowalk website

As part of the 2025 Global Photowalk event organized by the Interaction Collaboration, Fermilab has launched a new Photowalk website with information on the local photo contest and a sign-up form.

Photographers will be able to capture behind the science areas at Fermilab for a chance to be entered into the international competition this fall.

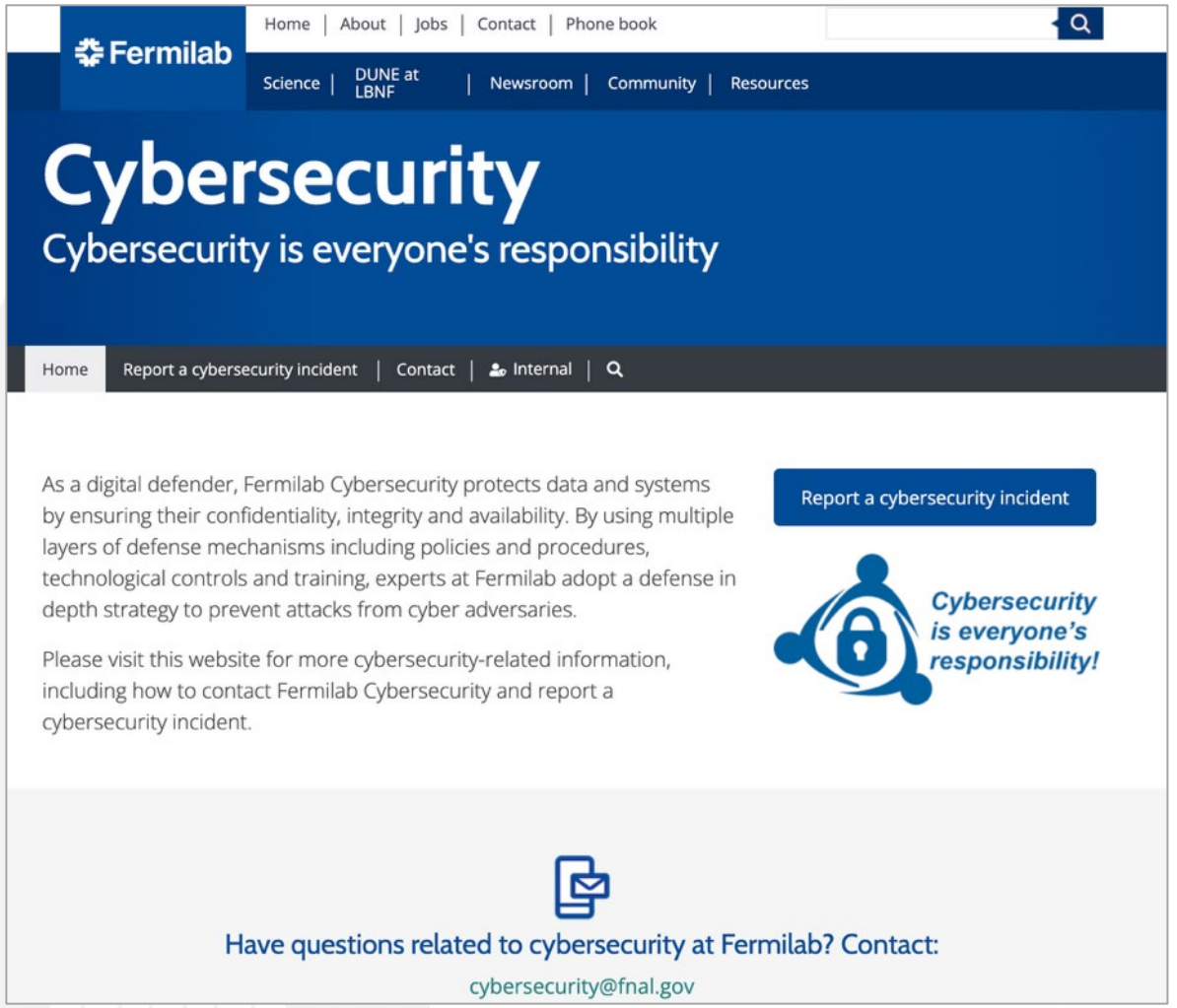
Fermilab has started accepting applications limited for the Fermilab Photowalk day scheduled for Saturday, July 26, 2025, from 8 a.m. to 12 p.m. Space is limited. Participants must submit the online application by June 1, 2025.

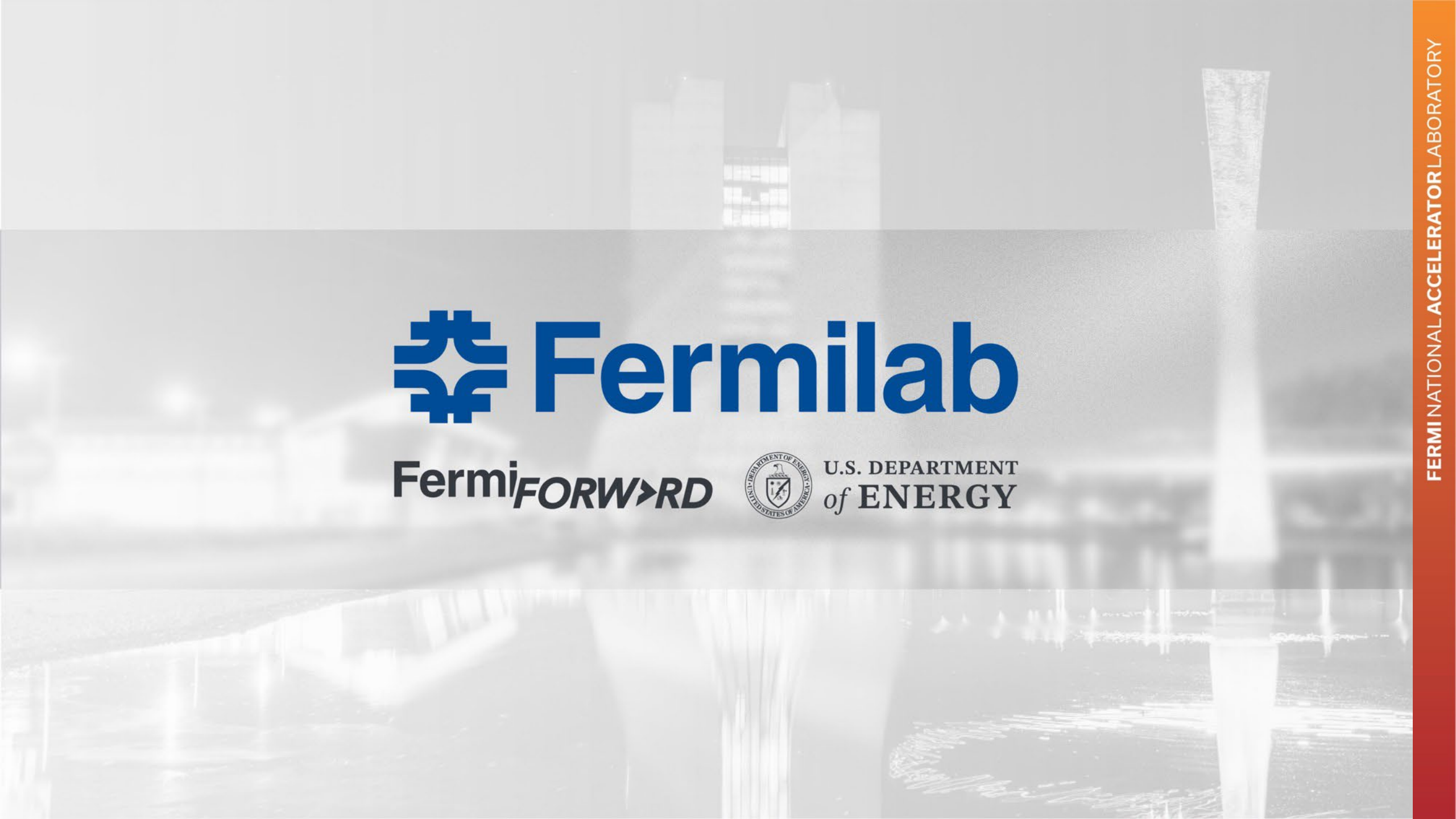


Website updates – New Photowalk website

Fermilab launched a new Cybersecurity public website at https://cybersecurity.fnal.gov/ and updated its internal site for employees, users and affiliates.

These websites include cybersecurity-related resources, such as how to report cyber incidents and guidance on the categories of high-risk personally identifiable information (PII) at Fermilab. The internal website also features helpful information for system administrators and scientists.

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