



Summer Internships @ SLAC

Hillary Freeman

STEM Education Program Manager

Hillary@slac.Stanford.edu



Your friendly internship contacts

Hillary Freeman

hillary@slac.Stanford.edu



Rebecca Flores

rflores@slac.Stanford.edu

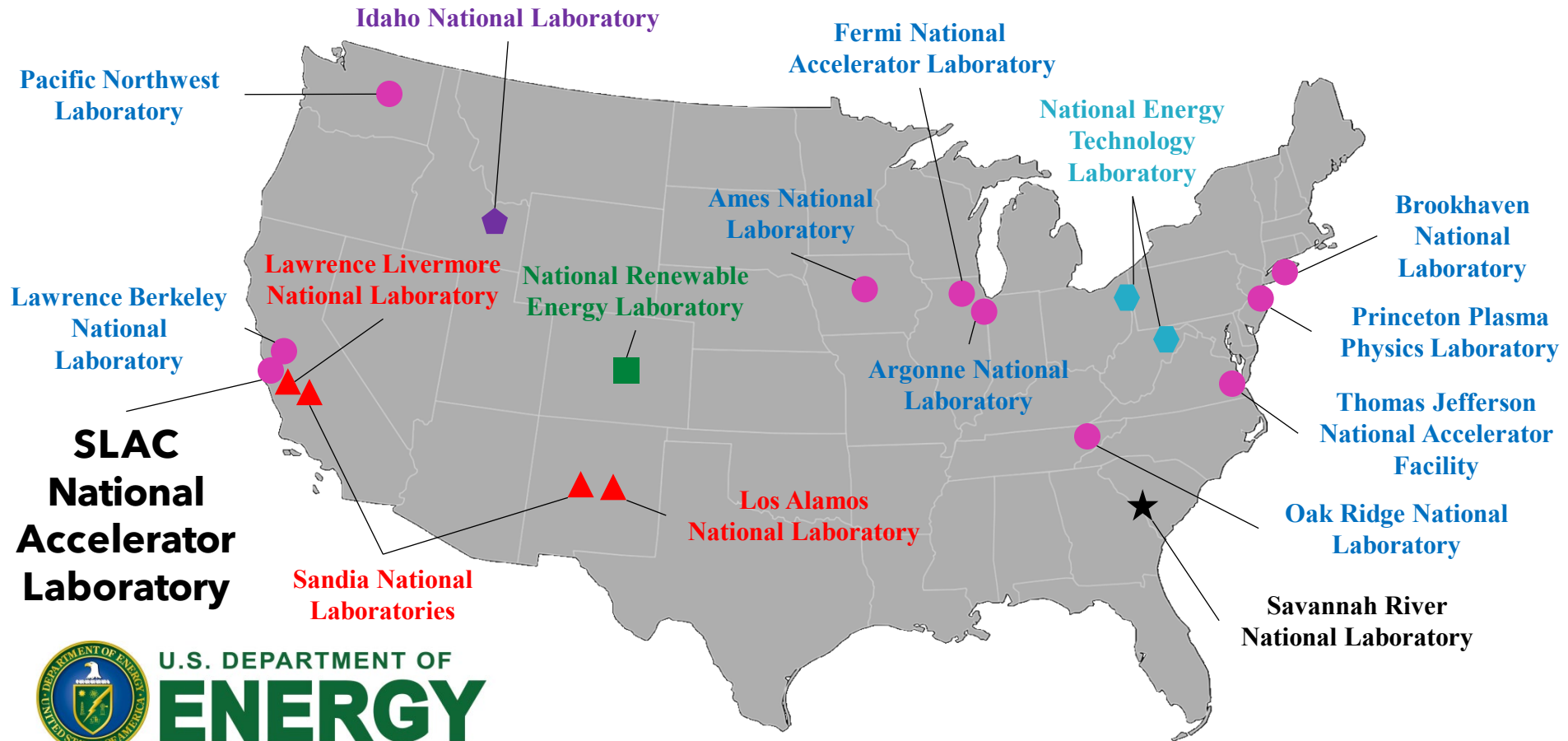




**BOLD
PEOPLE
VISIONARY
SCIENCE
REAL
IMPACT**

SLAC NATIONAL ACCELERATOR LABORATORY

SLAC One of 17 DOE National Laboratories



▲ National Nuclear Security Administration Lab

■ Office of Energy Efficiency and Renewable Energy Lab

★ Office of Environmental Management Lab

⬢ Office of Fossil Energy Lab

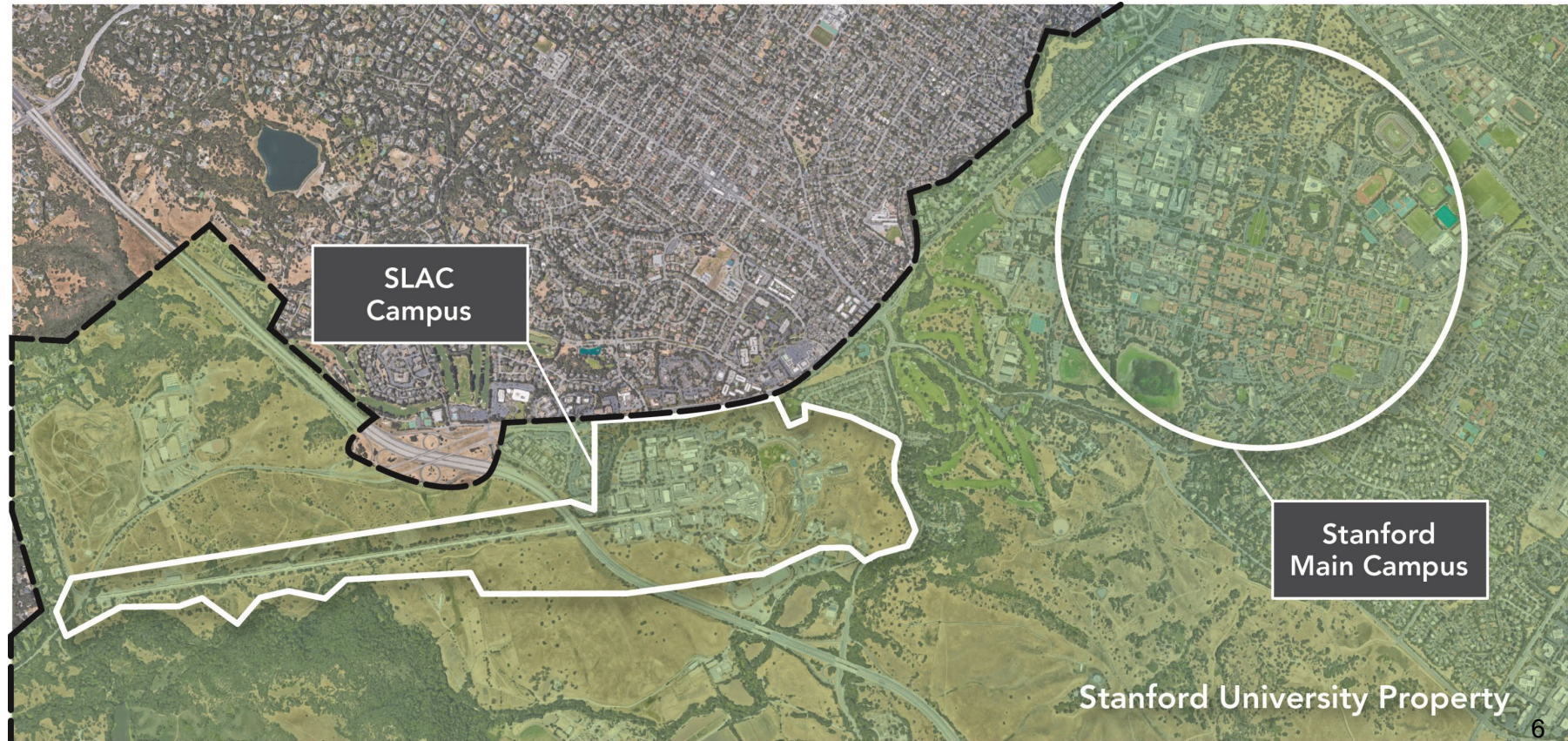
⬢ Office of Nuclear Energy, Science and Technology Lab

● Office of Science Lab

A wide-angle photograph of the Stanford University courtyard. In the center is a large, ornate, multi-tiered fountain with water spraying upwards. The fountain is surrounded by a paved walkway and green lawns. Several people are sitting on wooden benches around the fountain. In the background, there is a large, multi-story building with a red-tiled roof and arched windows. Two large palm trees are prominent in the foreground, flanking the fountain. The sky is clear and blue.

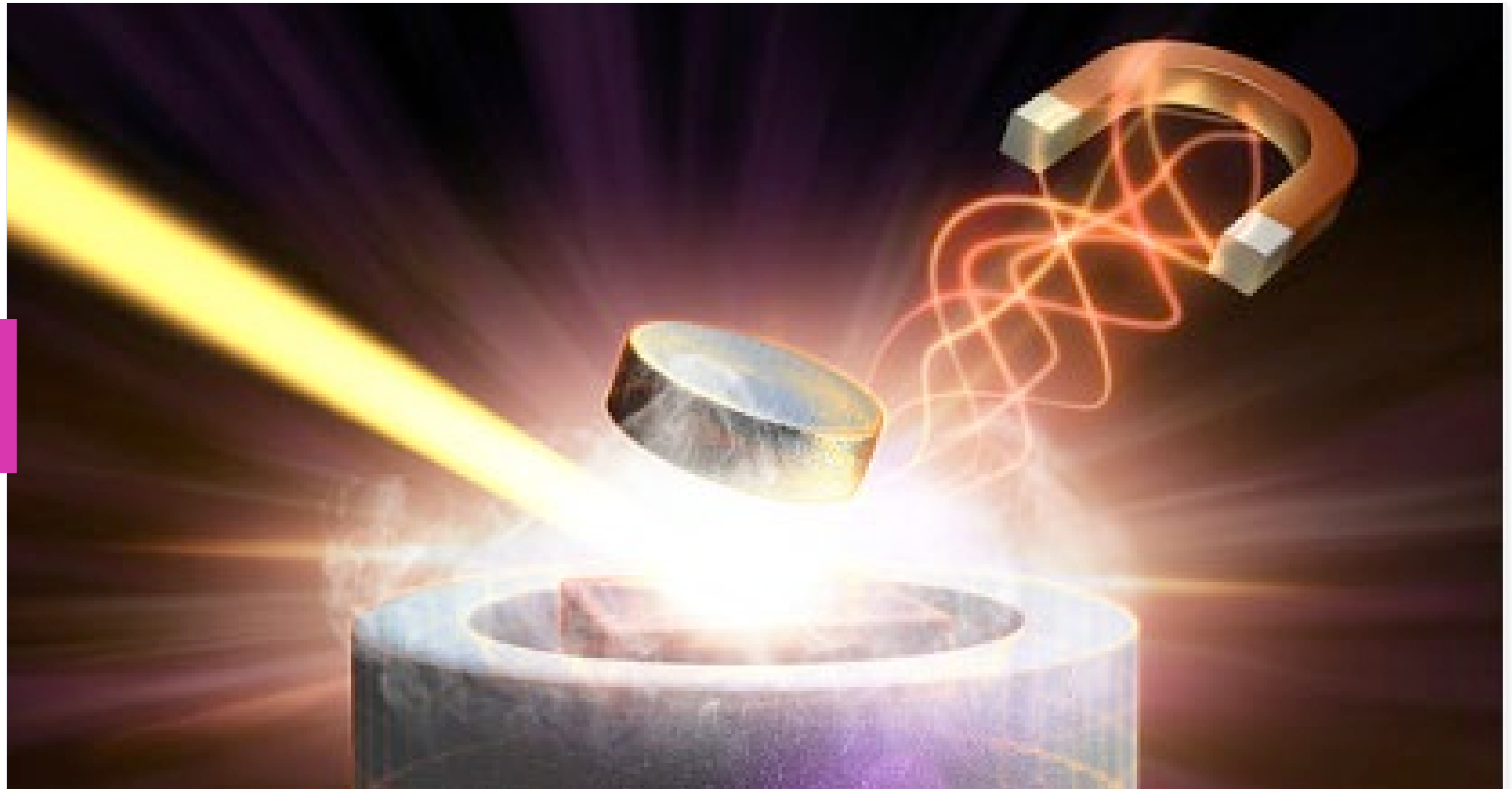
Stanford

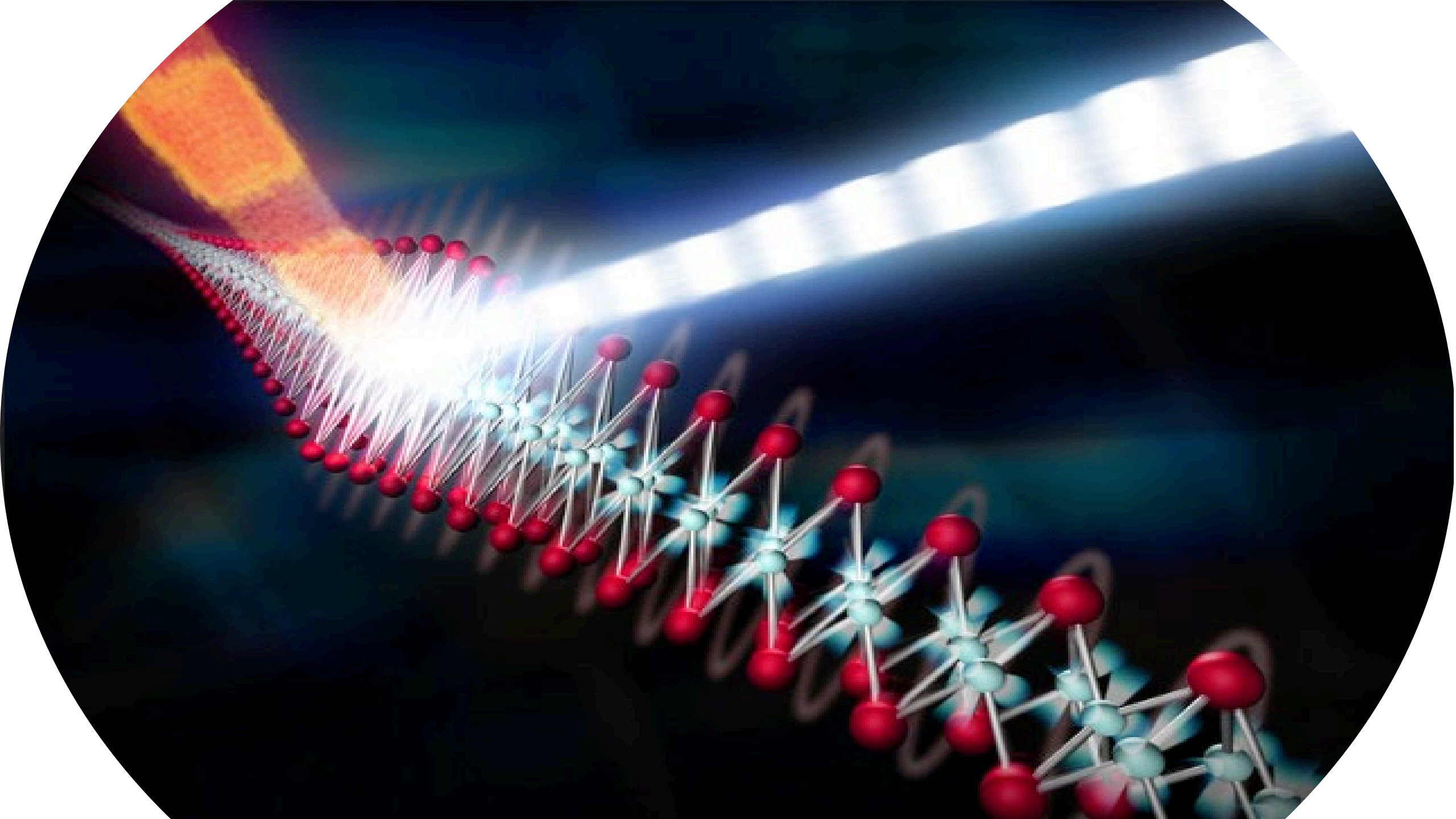
The Laboratory Sits on Stanford Land

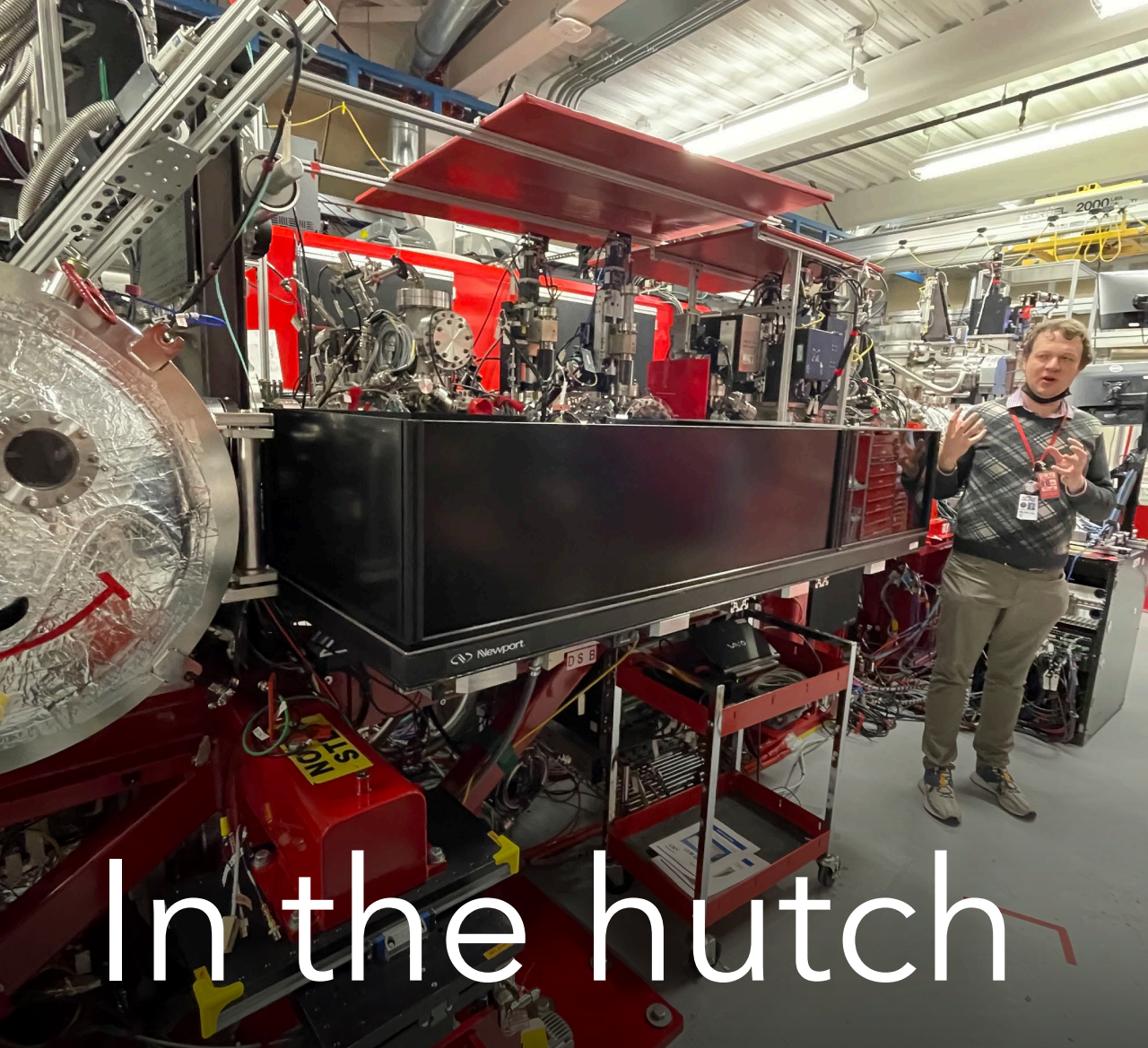


What the heck is an accelerator?

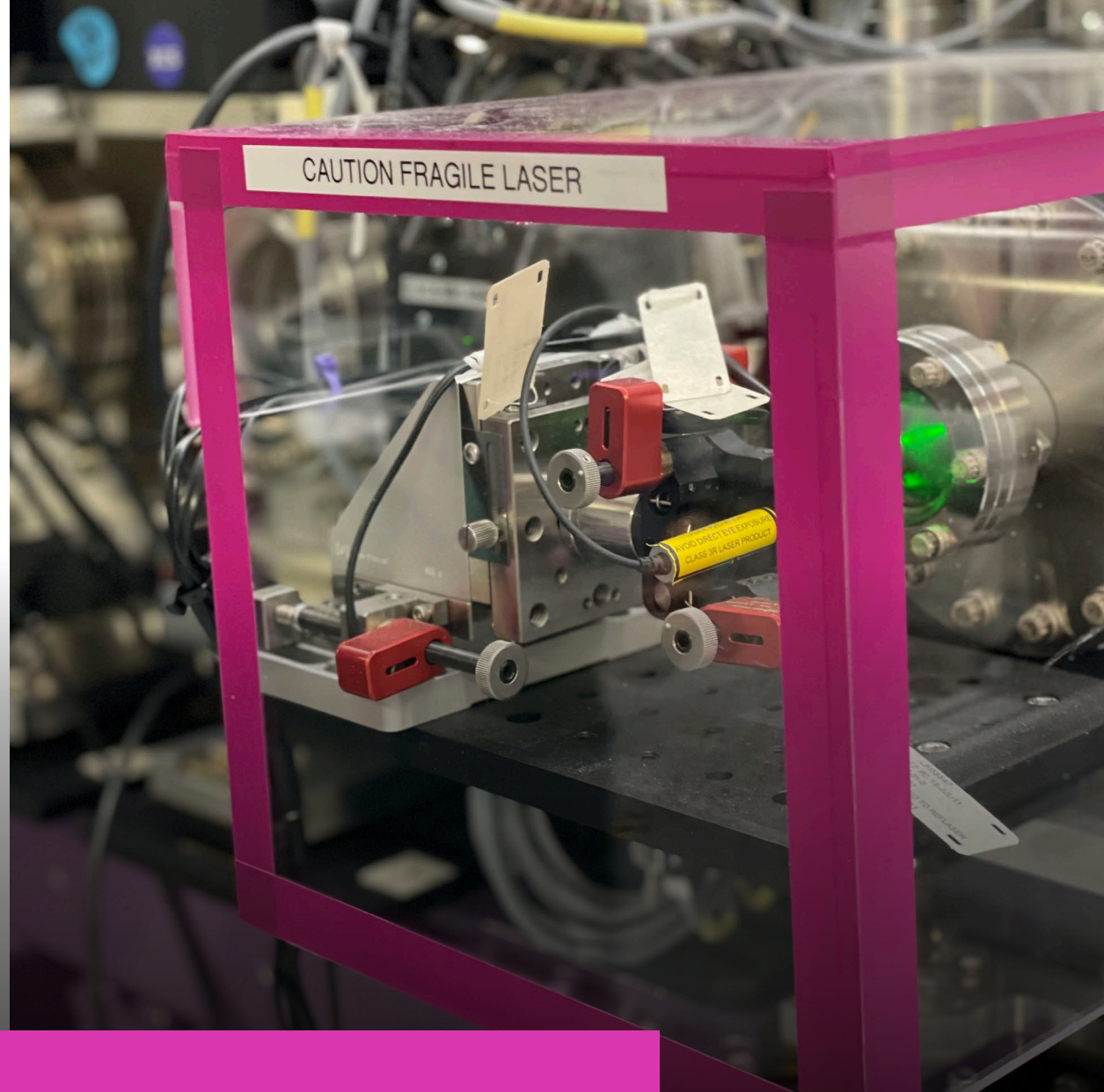


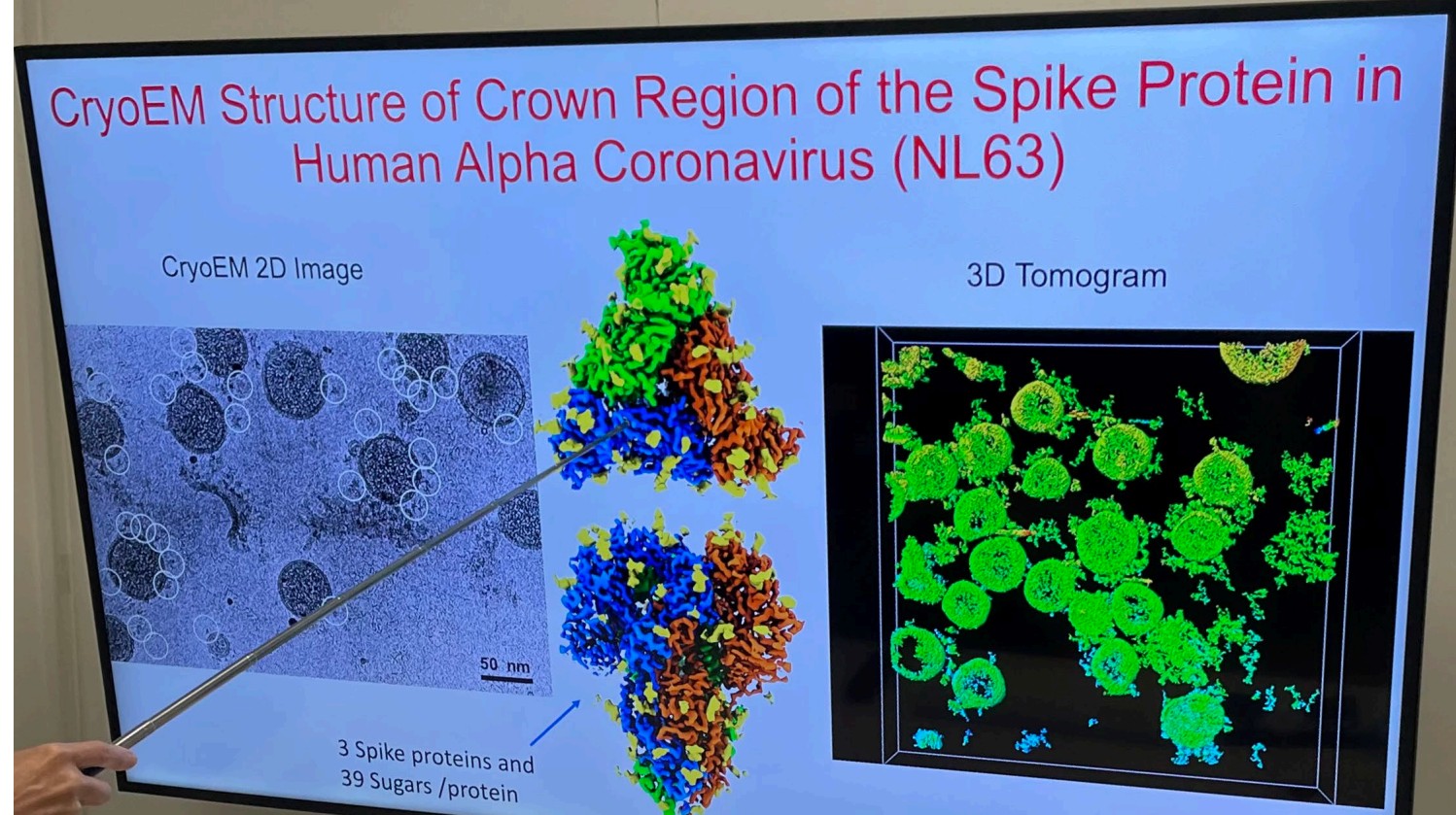
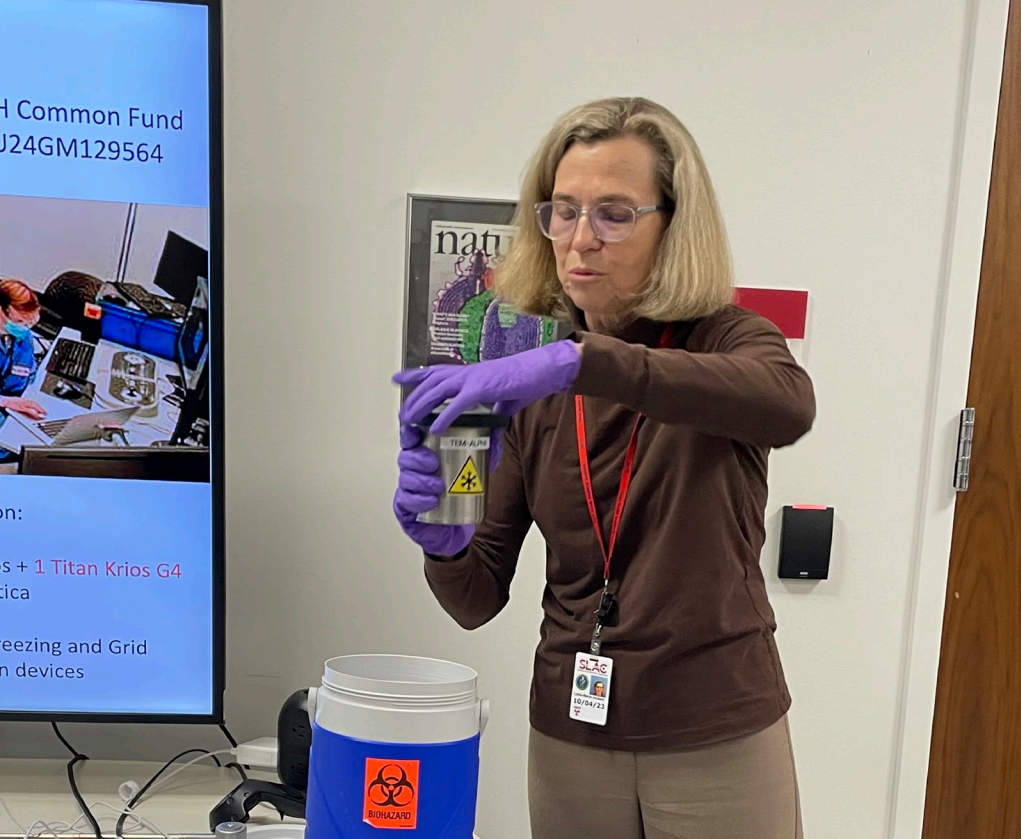






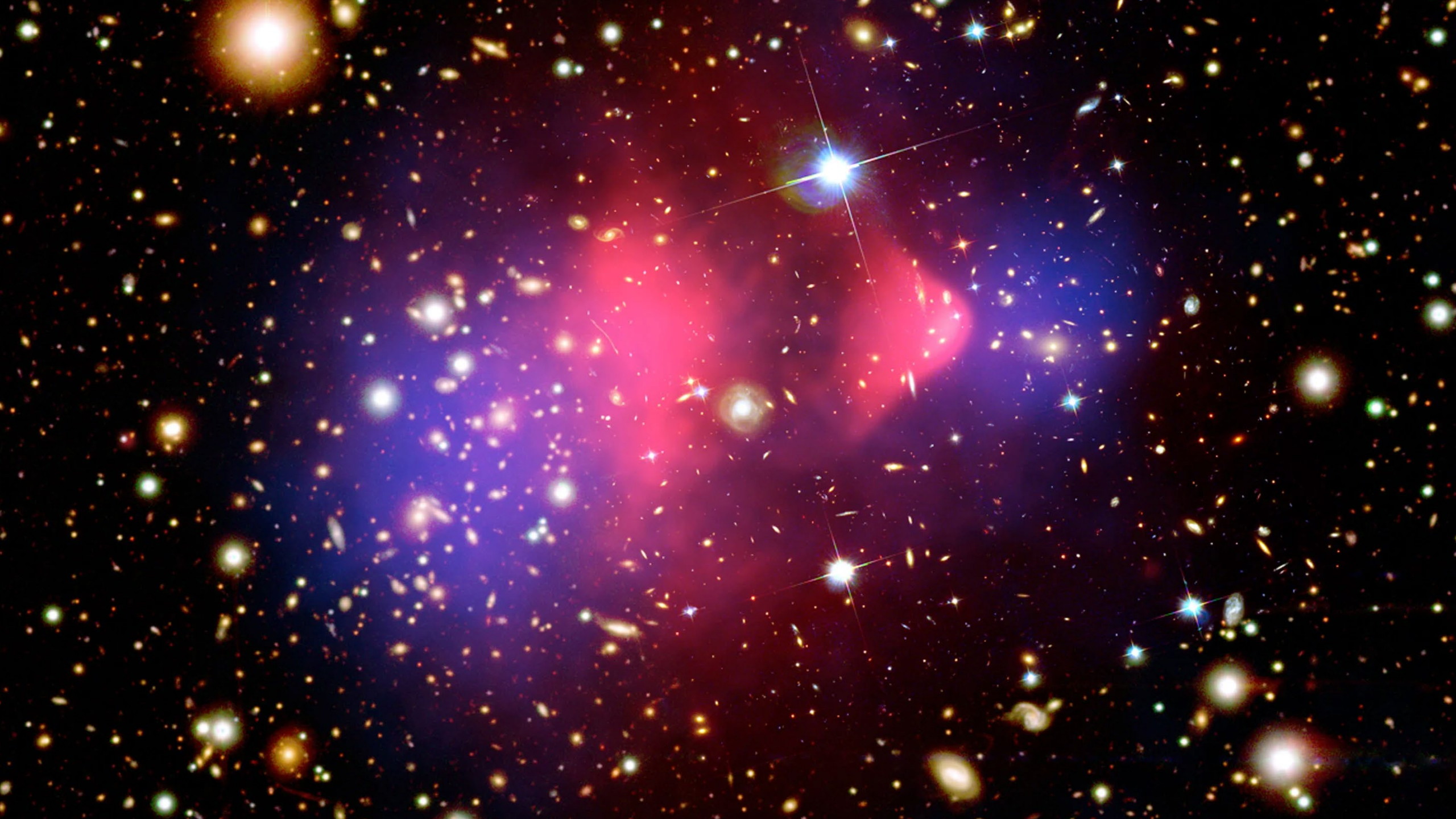
In the hutch





Corona Virus research

- Liquid nitrogen
- Spike protein
- 3D electron microscopy



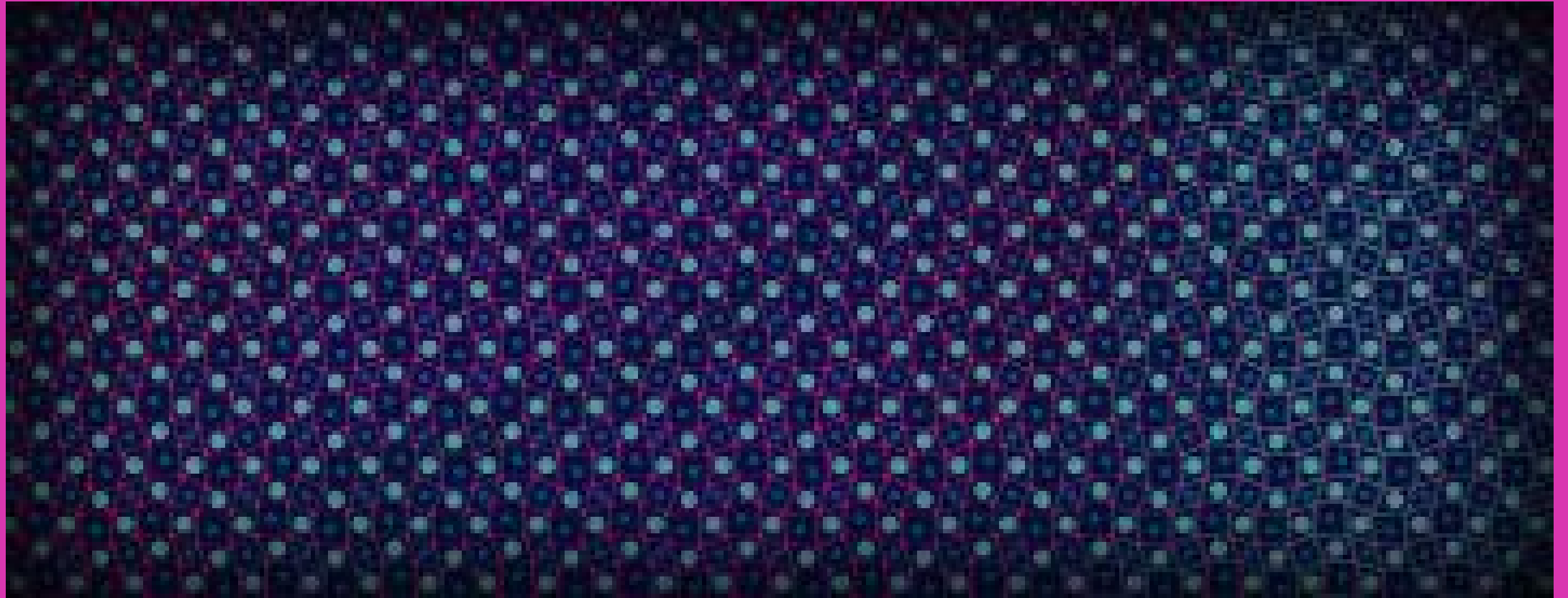


NOTICE

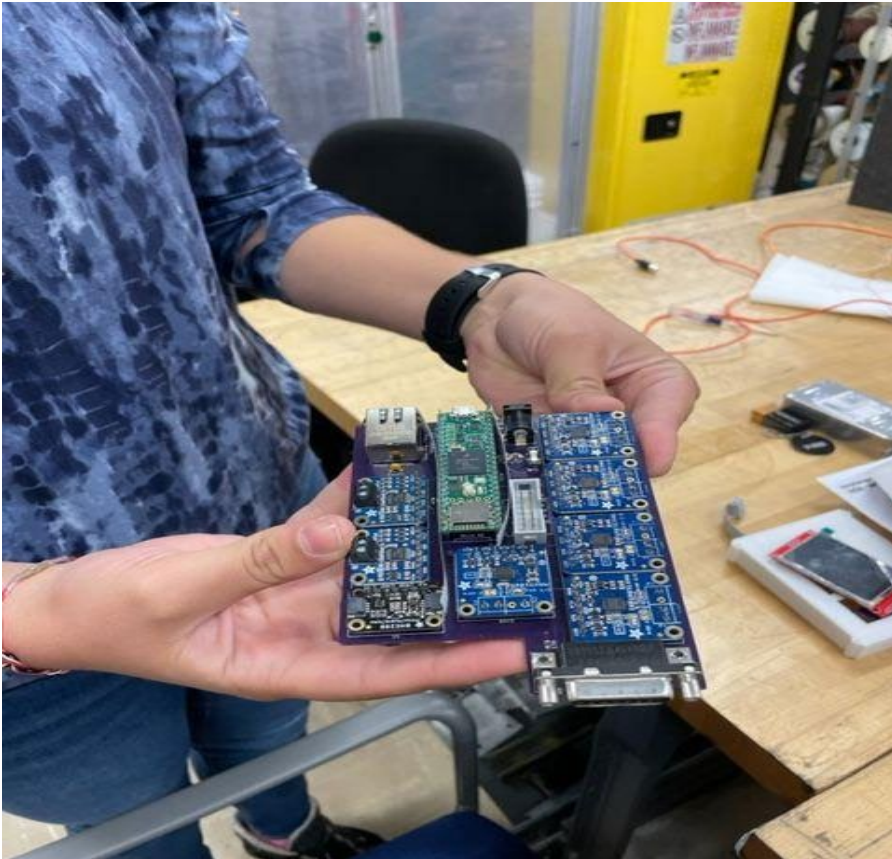
WORKERS UNDER
CAMERA STAND
WILL WEAR HARD
HATS

ASC INDUSTRIES CAP: 4 TON





Reasons for Completing an Internship



- **Access to STEM professionals. ACCESS. ACCESS. ACCESS.**
- **Insight into cutting edge innovation and research**
 - **Several national lab scientists have won Nobel Prizes**
 - **Increase awareness of potential majors, research and careers**
- **Gain access to novel equipment, workspaces and laboratories.**
 - **4 accelerators, electron microscopes spectrophotometry, and more**
- **Participate in actual, authentic scientific research**



Additional Benefits

- **Gain new skills**
- **Great for college, job, scholarship, applications**
- **Learn what you like and don't like**
- **Internships are paid**
- **Build your network – both mentor/manager and fellow interns**

History of SULI & CCI

- The Summer Science Program at SLAC was conceived by Al Ashley in HR to expose minority high school students to research
- In 1970, Dr. Ernest Coleman developed the academic criteria leading to its national recognition
- This program became SULI upon adoption by DOE and spread to other national labs
- CCI was started by DOE
 - SLAC joined the CCI Program in 2012



Ernest Coleman
High Energy Physicist
1943-1990

WDTS Internship Programs

- [SULI](#) (Science Undergraduate Laboratory Internship)
- [CCI](#) (Community College Internship)
- [VFP](#) (Visiting Faculty Program)
- [SCGSR](#) (Office of Science Graduate Student Research)
- [ORISE](#) (Oak Ridge Institute of Science and Education)
- [MEISPP](#) (Minority Educational Institution Student Partnership Program)
- STAR (Student Teachers and Researchers)
- [STEMCORE](#) COMMUNITY COLLEGE PROGRAM



- **Linac Coherent Light Source Internship Program ([LCLS](#))**

- Application Period for Summer 2023: open now and rolling until June

- **General Intern Program ([Career Site](#))**

- Application Deadline for summer 2023: currently open

- **Youth Opportunity Program ([YOP](#))**

- Application Period for Summer 2023: open now and rolling

- **Duration in summer is typically 10 weeks**

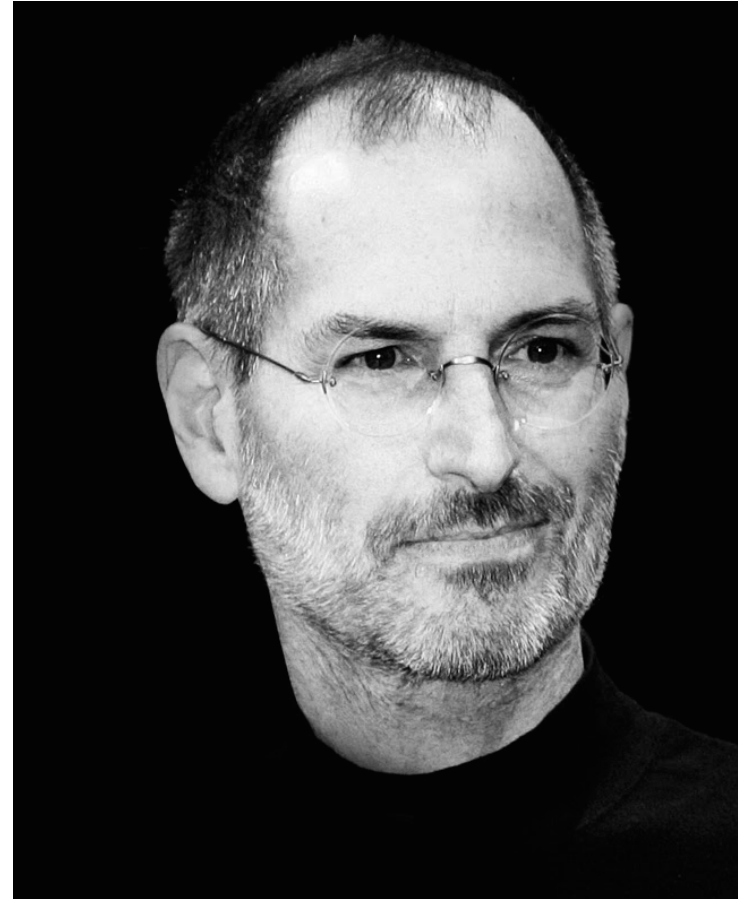
WHY?

- Access - claim it (and get paid for it)
- Experience - what is authentic state-of-the-art scientific research?
- Eye opening - Wait...That is happening? I could do THAT???
- Door opening - Jobs, Grad School, Fulbright Scholarships, etc.
- **FUNNNNNNNNNNNNN**

Connecting the Dots

"You can't connect the dots looking forward; you can only connect them looking backwards. So you have to trust that the dots will somehow connect in the future."

Steve Jobs





Not. To. Be. Missed.

Keep in touch: Hillary@hillaryfreeman.org