NATIONAL MAGLAB

AT A GLANCE

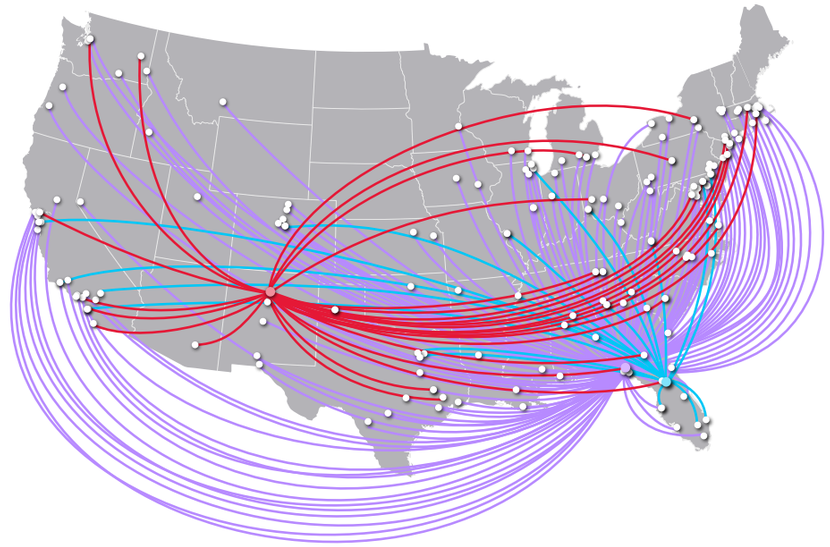
Florida State University • University of Florida • Los Alamos National Laboratory

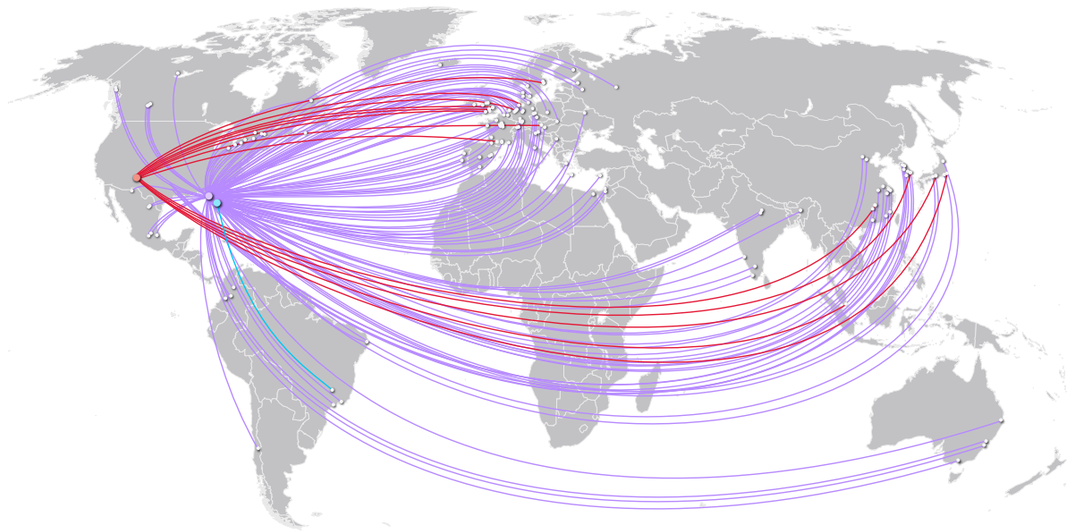
Supported by the National Science Foundation and the State of Florida

SCIENCE KNOWS NO BOUNDARIES

Seeking the most powerful magnetic fields on Earth, scientists and engineers from around the world conduct their experiments at the National MagLab. In 2023, our **1,826** users represented **338** universities, government labs and private companies worldwide.

78% UNIVERSITIES **15%** GOVERNMENT LABS **8%** INDUSTRY





2023 LAB STATS

USERS:

1,826

PERCENTAGE OF USERS WHO WERE NEW:

23%

ARTICLES PUBLISHED IN PEER-REVIEWED JOURNALS:

298

TALKS, LECTURES AND PRESENTATIONS GIVEN TO ORGANIZATIONS AROUND THE COUNTRY & WORLD:

158

MAGLAB WORLD RECORDS:

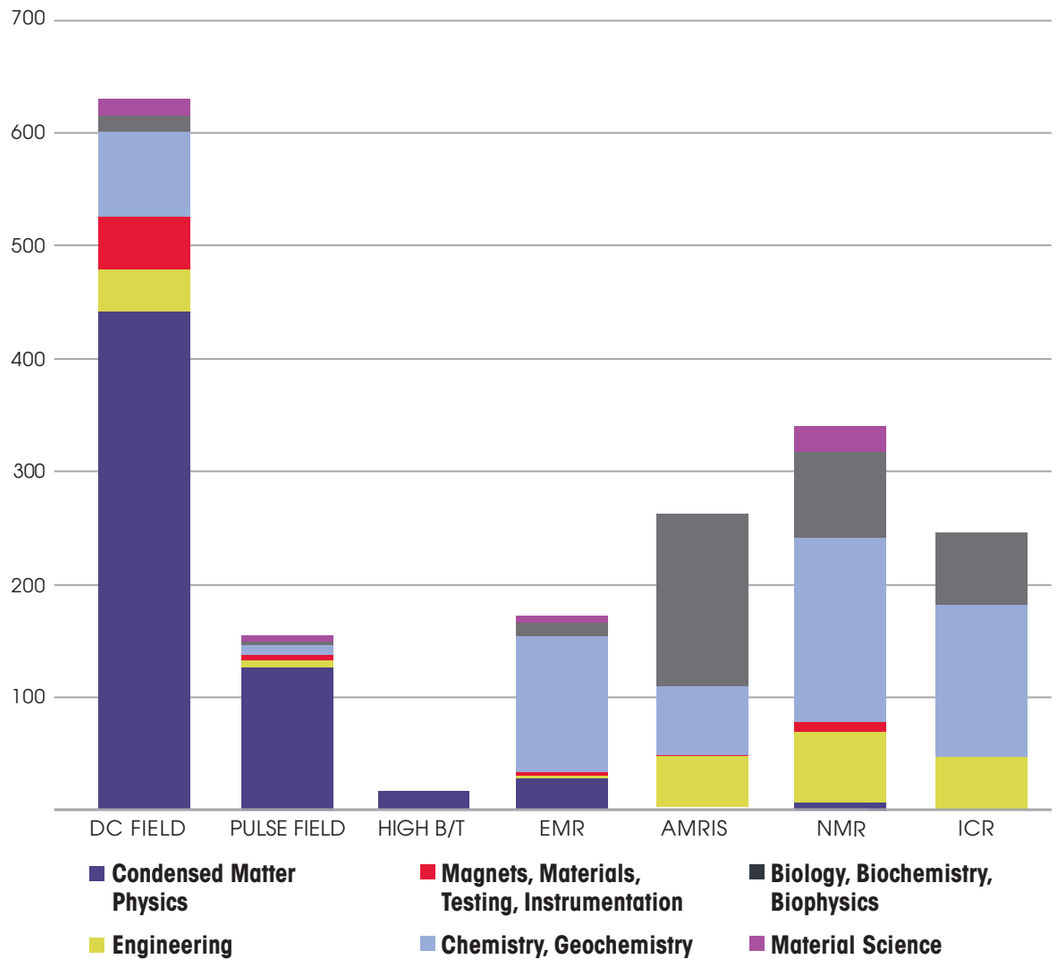
17

WHO OUR USERS ARE

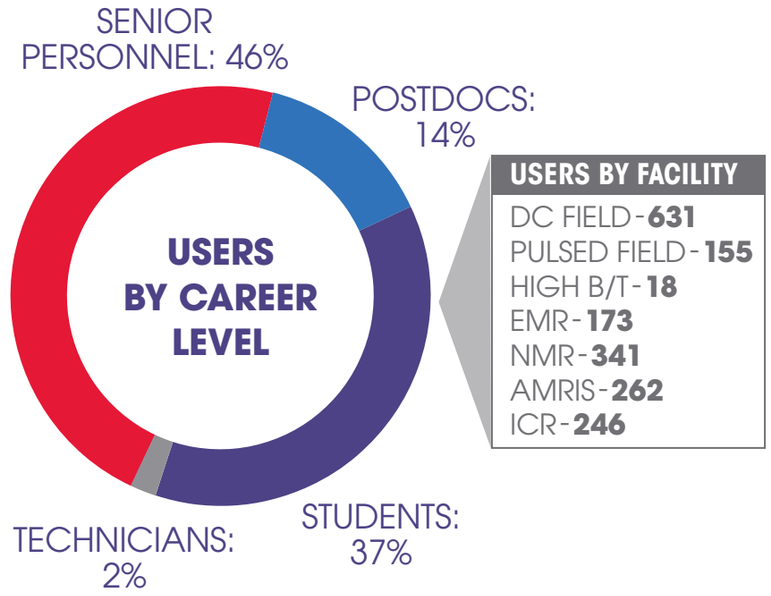
High magnetic fields are a powerful research tool across many disciplines leading to groundbreaking discoveries that impact your life. The lab comprises 7 distinct user facilities that offer our researchers a wide range of research capabilities:

- **DC Field**
  Steady, continuous magnetic fields up to 45 T
- **Pulsed Field**
  Short, ultra-powerful magnetic fields up to 100 T
- **High B/T**
  Magnetic fields up to 15 T combined with ultra-cold temperatures of 0.4 mK
- **Electron Magnetic Resonance (EMR)**
  Magnetic resonance techniques associated with the electron
- **Nuclear Magnetic Resonance (NMR)**
  Solid & solution state NMR & animal imaging
- **Advanced Magnetic Resonance Imaging & Spectroscopy (AMRIS)**
  High-resolution solution and solid-state, NMR, animal imaging & human imaging
- **Ion Cyclotron Resonance (ICR)**
  Ultra-high resolution and high mass accuracy Fourier transform ion cyclotron resonance (FT-ICR) mass spectrometry

2023 USERS BY DISCIPLINE



34% OF STUDENT USERS ARE FEMALE. & **35%** OF POSTDOC USERS ARE FEMALE.



USERS BY FACILITY

- DC FIELD - **631**
- PULSED FIELD - **155**
- HIGH B/T - **18**
- EMR - **173**
- NMR - **341**
- AMRIS - **262**
- ICR - **246**

Advancing research by expanding accessibility:

110 users from 28 different institutes located in 16 EPSCoR states

89 users from 22 historically black colleges and universities, high Hispanic serving institutes, and/or women's colleges and universities.

WHAT OUR USERS SAY

94% of users were satisfied with performance of the facilities and equipment.

98% of users were satisfied with the assistance provided by MagLab technical staff.

95% of users were satisfied with the proposal process.

99% of users were satisfied or with the overall safety at the MagLab.

Data reflects external users only.

MAGLAB STAFF

The MagLab employs a diverse workforce that includes scientists, machinists, engineers, administrators, writers and even artists.

Total MagLab Staff: **809**

- Senior Personnel: **231**
- Other Professional: **101**
- Support Staff - Technical: **140**
- Support Staff - Secretarial: **15**
- Postdoctoral: **67**
- Graduate Student: **156**
- Undergraduate Student: **99**

43% of MagLab students are female.

SPARKING CURIOSITY

Whether in a traditional classroom setting or on our website, within the walls of our lab or in universities around the globe, the National MagLab is committed to sharing our passion for science. We are growing the next generation of scientists and inspiring all individuals about the magic of discovery in high magnetic fields.

1,400+

K-12 students participated in Classroom Outreach or a field trip. **58%** of the students reached are from Title I schools.

11,700+

visitors of all ages during our annual **5-hour** Open House event

60+

Students in long-term mentorship or camp programs

3.4 MILLION

website interactions

26 THOUSAND+

hours of MagLab video content watched on YouTube.

The Veritasium Channel featured the MagLab in a video that garnered **12 Million+ views.**

Connect with us at
NationalMagLab.org
or by following us across
social media.