

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

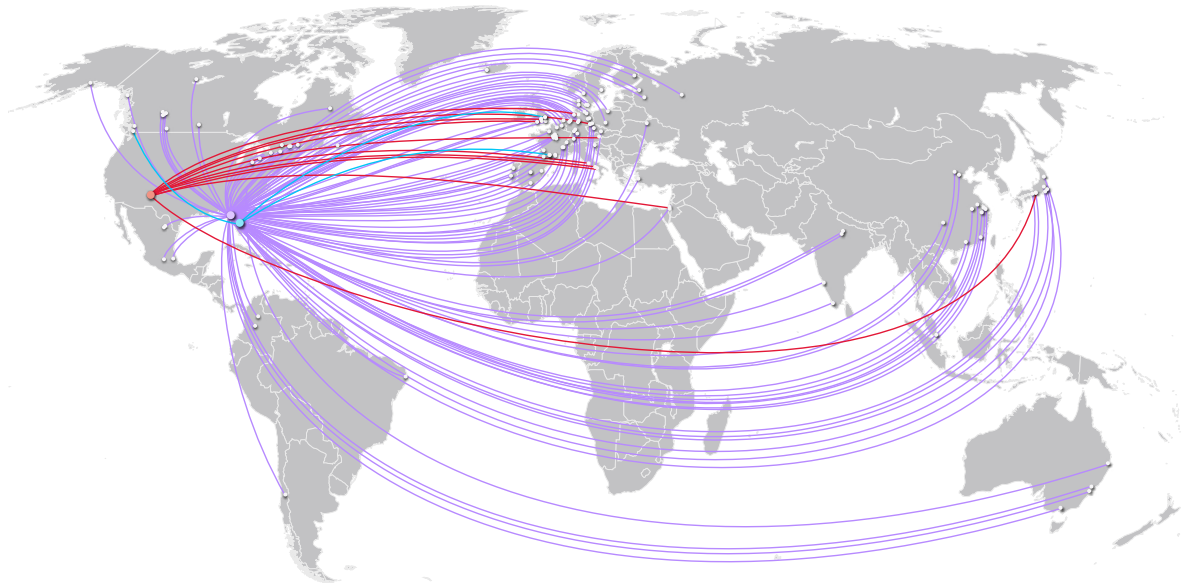
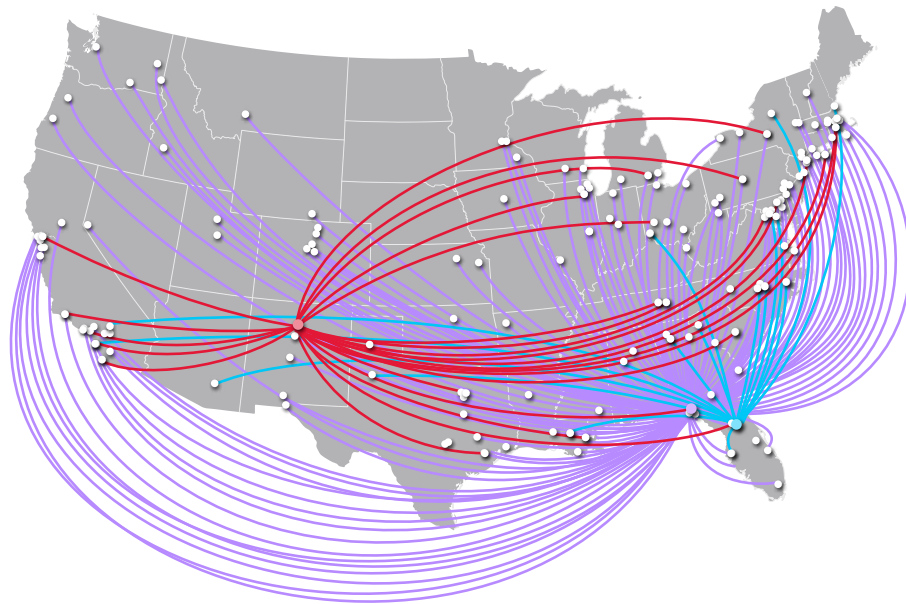
SCIENCE KNOWS NO BOUNDARIES

Seeking the most powerful magnetic fields on Earth, scientists and engineers from around the world conduct their experiments at the National MagLab. In 2022, our **1,958** users represented **327** universities, government labs and private companies worldwide.

75% UNIVERSITIES

18% GOVERNMENT LABS

8% INDUSTRY



2022

LAB STATS

USERS:

1,958

**PERCENTAGE
OF USERS
WHO WERE NEW:**

25%

**ARTICLES
PUBLISHED IN
PEER-REVIEWED
JOURNALS:**

352

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

168

**MAGLAB
WORLD
RECORDS:**

17

**PERCENTAGE
OF TALKS GIVEN
VIRTUALLY:**

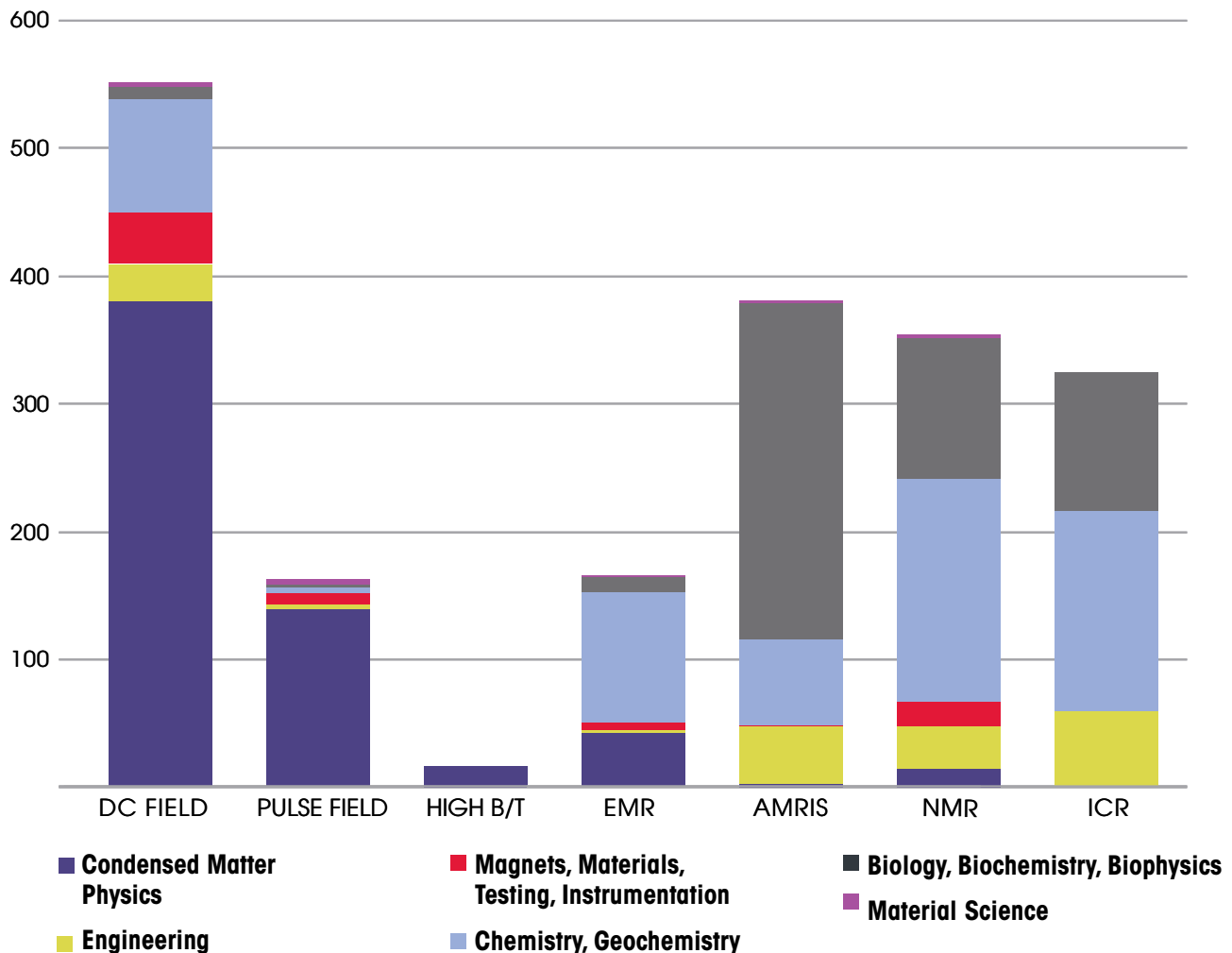
87%

WHO OUR USERS ARE

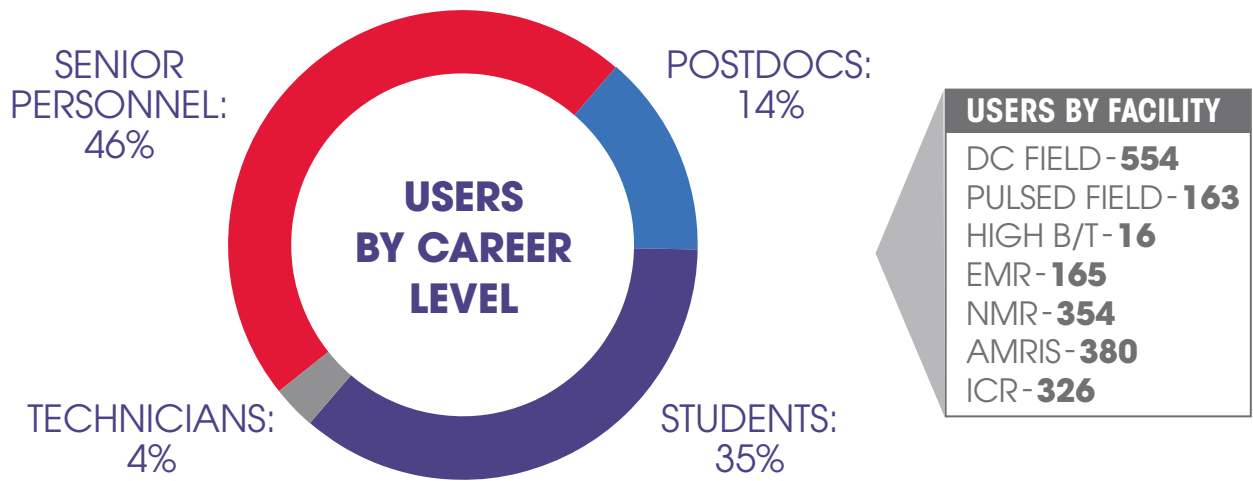
High magnetic fields are a powerful research tool across many disciplines leading to groundbreaking discoveries that impact your life. The lab comprises 7 distinct user facilities that offer our researchers a wide range of research capabilities:

- **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

2022 USERS BY DISCIPLINE



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



USERS BY FACILITY

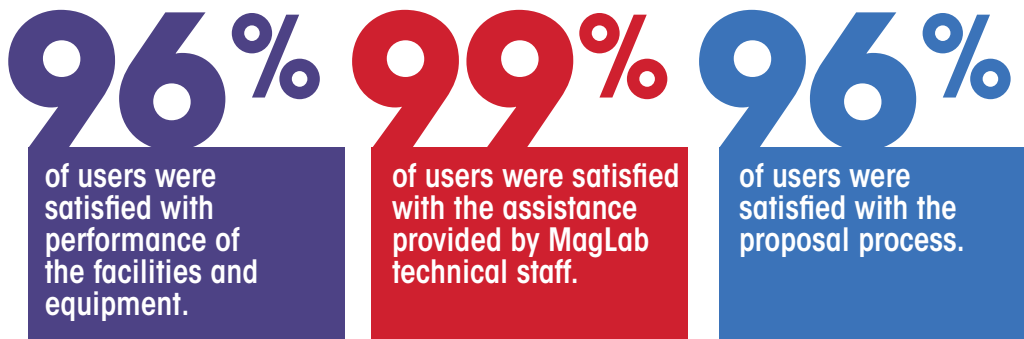
DC FIELD	-554
PULSED FIELD	-163
HIGH B/T	-16
EMR	-165
NMR	-354
AMRIS	-380
ICR	-326

Advancing research by expanding accessibility:

147 users from 34 different institutes located in 18 EPSCoR states

125 users from 26 historically black colleges and universities, high Hispanic serving institutes, and/or women's colleges and universities.

WHAT OUR USERS SAY



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: **759**



- Senior Personnel: **230**
- Other Professional: **96**
- Support Staff - Technical: **119**
- Support Staff - Secretarial: **16**
- Postdoctoral: **50**
- Graduate Student: **179**
- Undergraduate Student: **69**

38% 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.

2,000+

K-12 students participated in Classroom Outreach or a field trip. **72%** of the students reached are from Title I schools.

90

scientists & staff reported conducting outreach to the community. Together, these scientists reached **5,200+** people

1.38
MILLION+

website **pageviews**

50+

Students in long-term mentorship or camp programs

35
THOUSAND+

hours of MagLab video content watched on YouTube.