



Neil Harrison and Marcelo Jaime, just some of the user support scientists, as well as Kim Modic, a student at the NHMFL-PFF, offer unprecedented aid in a wide range of techniques and research areas for users to take advantage of while utilizing the facility.

THE PULSED FIELD USER PROGRAM PROVIDES RESEARCHERS WITH A BALANCE OF THE HIGHEST MAGNETIC FIELDS AND ROBUST SCIENTIFIC DIAGNOSTICS. THE PULSED FIELD FACILITY IS HOME TO A WIDE VARIETY OF EXPERIMENTAL CAPABILITIES. THE FACILITY - WITH BOTH SHORT-PULSE AND LONG-PULSE MAGNETS - IS EQUIPPED FOR EXPERIMENTS SUCH AS MAGNETO-TRANSPORT AND MAGNETO-OPTICS, HALL MEASUREMENTS, HIGH FIELD SPECTROSCOPY, MAGNETIZATION AND SUSCEPTIBILITY, RESONANCE ULTRASOUND, AND MORE.

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REQUEST MAGNET TIME
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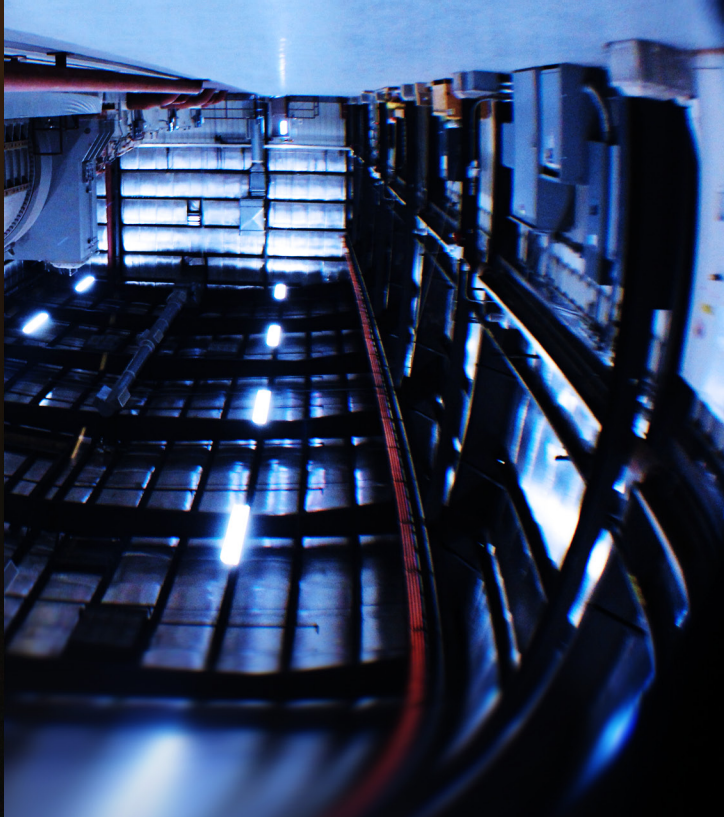


NATIONAL
 HIGH
 MAGNETIC
 FIELD
 LABORATORY

pulsed
 FIELD
 facility

**USER
 PROGRAM**





THE NATIONAL HIGH MAGNETIC FIELD LABORATORY-PULSED FIELD FACILITY AT LOS ALAMOS NATIONAL LABORATORY OPERATES AN INTERNATIONAL USER PROGRAM FOR RESEARCH IN HIGH MAGNETIC FIELDS. THIS USER PROGRAM IS FUNDED BY THE NATIONAL SCIENCE FOUNDATION, AND ACCESS TO ALL NHMFL MAGNETS IS OPEN TO ALL SCIENTISTS VIA A COMPETITIVE PROPOSAL PROCESS. OUR PULSED MAGNETS AND EXPERIMENTAL CAPABILITIES ARE UNIQUE IN THE WORLD AND OUR ABILITY TO PRODUCE CUTTING EDGE SCIENCE IS A MAJOR ATTRACTION FOR LANL VISITORS.

Upwards of 1,000 researchers from around the world - like Suchitra Sebastian, Peng Chen, Whitney Schoenthal, and Jamie Manson - engage in fruitful, collaborative research at the PFF utilizing the facility's flagship magnets that are both designed and built in-house.



The magnet development capability at the PFF of Los Alamos is equipped with facilities for fabrication, assembly, maintenance, test, and analysis of magnets. We also have access to material development equipment and characterization and the expertise of laboratories at both LANL and the Florida branches to search for better materials used to make higher fields.

MAGNETS

AFTER TWO DECADES OF INNOVATION, WE HAVE DEVELOPED AND MAINTAINED A SET OF NUMEROUS POWERFUL PULSED MAGNETS RANGING FROM 50T TO 100 T OF DIFFERENT PULSE WIDTHS TO SUPPORT FOR A WIDE VARIETY OF USERS.

please see the list to the right and visit <http://www.magnet.fsu.edu/users.htm> for further specifications.

- generator-driven and multiplex
- 60T CONTROLLED WAVEFORM 15mm BORE 100msec
- 100T MULTI-SHOT 15mm BORE 25msec
- capacitor-bank driven
- 65T SHORT PULSE 15mm BORE 25msec
- 300T SINGLE TURN 10mm BORE 6msec
- superconducting
- 18/20T 52mm BORE
- 19/17T 52mm BORE
- 12/14T 52mm BORE
- 7T SPLIT OPTICS

