

Spallation Neutron Source at Oak Ridge National Laboratory



The world's most intense pulsed, accelerator-based neutron source

Backscattering Spectrometer (BASIS) • BL-2

Dynamics of macromolecules, constrained molecular systems, polymers, biology, chemistry, materials science

Eugene Mamontov • 865.574-5109 • mamontov@ornl.gov

Nanoscale-Ordered Materials Diffractometer (NOMAD) • BL-1B (2010*)

Liquids, solutions, glasses, polymers, nanocrystalline and partially ordered complex materials

Joerg Neufeld • 865.241.1635 • neufeldjc@ornl.gov

Wide Angular-Range Chopper Spectrometer (ARCS) • BL-18

Atomic-level dynamics in materials science, chemistry, condensed matter sciences

Doug Abernathy • 865.576.5105 • abernathydl@ornl.gov

Fine-Resolution Fermi Chopper Spectrometer (SEQUOIA) • BL-17

Dynamics of complex fluids, quantum fluids, magnetism, condensed matter, materials science

Garrett Granroth • 865.576.0900 • granrothge@ornl.gov

Spallation Neutrons and Pressure Diffractometer (SNAP) • BL-3

Materials science, geology, earth and environmental sciences

Chris Tulk • 865.576.7028 • tulkca@ornl.gov

Magnetism Reflectometer • BL-4A

Chemistry, magnetism of layered systems and interfaces

Valeria Lauter • 865.576.5389 • lauterv@ornl.gov

Liquids Reflectometer • BL-4B

Interfaces in complex fluids, polymers, chemistry

John Ankner • 865.576.5122 • anknerjf@ornl.gov

Cold Neutron Chopper Spectrometer (CNCS) • BL-5

Condensed matter physics, materials science, chemistry, biology, environmental science

Georg Ehlers • 865.576.3511 • ehlersg@ornl.gov

Extended Q-Range Small-Angle Neutron Scattering Diffractometer (EQ-SANS) • BL-6

Life science, polymer and colloidal systems, materials science, earth and environmental sciences

Jinkui Zhao • 864.574.0411 • zhaoj@ornl.gov

Ultra-Small-Angle Neutron Scattering Instrument (TOF-USANS) • BL-1A (2014*)

Life sciences, polymers, materials science, earth and environmental sciences

Michael Agamalian • 865.576.0903 • magamalian@ornl.gov

BL-1C

Chemical Spectrometer (VISION) • BL-16B (2012*)

Vibrational dynamics in molecular systems, chemistry

Christoph Wildgruber • 865.574.5378 • wildgrubercl@ornl.gov

BL-16A

Neutron Spin Echo Spectrometer (NSE) • BL-15 (2009*)

High-resolution dynamics of slow processes, polymers, biological macromolecules

Michael Ohl • 865.574.8426 • ohlme@ornl.gov

Hybrid Spectrometer (HYSPEC) • BL-14B (2011*)

Atomic-level dynamics in single crystals, magnetism, condensed matter sciences

Mark Hagen • 865.241.9782 • hagenme@ornl.gov

BL-14A

Fundamental Neutron Physics Beam Line • BL-13

Fundamental properties of neutrons

Geoffrey Greene • 865.574.8435 • greenegl@ornl.gov

Elastic Diffuse Scattering Spectrometer (CORELLI) • BL-9 (2014*)

Detailed studies of disorder in crystalline materials

Feng Ye • 865.576.0931 • yef1@ornl.gov

BL-10

Macromolecular Neutron Diffractometer (MaNDI) • BL-11B (2013*)

Atomic-level structures of membrane proteins, drug complexes, DNA

Leighton Coates • 865.963.6180 • coatesl@ornl.gov

Powder Diffractometer (POWGEN) • BL-11A

Atomic-level structures in chemistry, materials science, and condensed matter physics including magnetic spin structures

Jason Hodges • 865.576.7034 • hodgesj@ornl.gov

* Scheduled commissioning date

LEGEND

- Installed, commissioning, or operating
- In design or construction
- Under consideration

06-G00400L/arm

Engineering Materials Diffractometer (VULCAN) • BL-7 (2009*)

Mechanical behaviors, materials science, materials processing

Xun-Li Wang • 865.574.9164 • wangxl@ornl.gov



OAK RIDGE
National Laboratory



NEUTRONS.ORNLL.GOV

NEUTRON SCIENCES