

Using the EMSL Proposal System



To use the EMSL facility, prospective users are asked to submit a proposal form. Following submission of a proposal, proposal authors will receive a prompt confirmation of receipt of the electronic proposal. After a thorough peer review, the authors will be advised whether the proposed use has been approved.

Submit a User Proposal

An EMSL User Proposal requires a lot of detailed information. To aid the process, we suggest you collect the necessary information before you begin filling out the proposal form, which is outlined below. This PDF/paper version of the EMSL Online User Proposal is provided as a convenient way for potential authors to prepare ahead of time the information needed for their proposal. **You will still be required to enter the actual information using the online system.**

Proposal Primary Author*

The lead professor(s) or advisor(s) of students or of post-docs should be listed as the primary author.

Is this participant the primary author of this proposal? Yes No

Will this participant be visiting EMSL? Yes No

Prefix: Dr. Mr. Mrs. Ms.

First Name

Middle Name

(No initials; if no middle name, use "NMN")

Last Name

Suffix

Primary Citizenship

Dual Citizenship

(No initials; if no middle name, use "NMN")

Profession: High School Student
 Faculty/Staff
 Retired

Undergraduate Student
 Research Scientist/Engineer
 Other (please specify): _____

Graduate Student
 Professional
 Postdoc
 Self-Employed

Phone Number (including area code)

Fax Number (including area code)

E-mail Address

Institution Information

Type of Institution: Academia Battelle Columbus DOE Lab (other than PNNL)
 Foreign National Laboratory Other Government Agency PNNL EMSL (if line staff)
 Private Industry Other (please specify): _____

Institution Name

Department

Business Address

City

State/Province

Postal Code
(only if U.S. or Canada)

Country

**In addition to the Proposal Primary Author, the above information will be required for each proposal participant. You may find it helpful to make additional copies of this page and complete one for each author you plan to list on the proposal.*

Proposal Details

Proposal Title: _____

Abstract: (500 word limit, you will need to cut & paste this on the online form)

Proposed Research file: (you will need to attached a file (.pdf or .doc) describing the proposed research, limited to three pages)

Additional Files: (e.g. CVs, images, etc). Authors can add any supplement information they think is necessary but there is no guarantee that the reviewers will read it.

Preferred Start Date: _____

Preferred End Date: _____

Primary Research Area:

Biological and Live Sciences
(Excludes medical applications)

Earth Sciences

Environmental Sciences

Medical Applications

Optics

PHYSICS (excludes Condensed Matter Physics)

Chemistry
(excludes Materials Chemistry)

Engineering

Materials Sciences

(includes Condensed Matter Physics & Materials Chemistry)

Polymers

Other

What Type of Access are you requesting?

Standard Rapid*

* Proposal must clearly justify why Rapid Access is needed

* Limited to Open Call, General type, and Non-proprietary status in the following 3 categories

What Call For Proposals are you responding to?

Open

Science Theme Call: Biological Interactions and Dynamics

Capabilities-based

Science Theme Call: Atmospheric Aerosol Chemistry

Grand Challenge - Computational

Science Theme Call: Science of Interfacial Phenomena

Science Theme Call: Geochemistry/Biogeochemistry and Subsurface Science

What Type of Proposal are you submitting?

General

Partner (requires a letter of interest initially)

What is the Proprietary Status of your proposal?

Non-proprietary

Proprietary

Is this proposal associated with a National Science Foundation Supplemental Funding Request? Yes No

Will you desire the assistance of EMSL staff in obtaining and interpreting the results? Yes No

EMSL Resources

If you know which EMSL resources you would like to use during your proposal, please indicate them in the list below by entering an estimate for the number of hours you plan to use the resource.

High-Field Magnetic Resonance

HOURS

- _____ EPR Spectrometer: Pulsed, ENDOR/ELDOR
- _____ NMR Spectrometer: 2-Tesla Horizontal Bore Varian Unity Plus (imaging)
- _____ NMR Spectrometer: 300 MHz WB CMX for Solids (and liquids)
- _____ NMR Spectrometer: 300 MHz WB Tecmag Discovery (radioactive samples)
- _____ NMR Spectrometer: 500 MHz NB CMX for Liquids (and solids)
- _____ NMR Spectrometer: 500 MHz WB Bruker Avance (imaging)
- _____ NMR Spectrometer: 500 MHz WB Varian NMR System (solids)

HOURS

- _____ NMR Spectrometer: 600 MHz NB Varian Inova
- _____ NMR Spectrometer: 600 MHz NB Varian Inova - Cryoprobe
- _____ NMR Spectrometer: 600 MHz NB Varian Inova - LC-NMR System - metabolomics cryoprobe
- _____ NMR Spectrometer: 750 MHz NB (17.6 Tesla) Varian Inova
- _____ NMR Spectrometer: 800 MHz (18.8 Tesla) Varian Inova
- _____ NMR Spectrometer: 900 MHz (21.1 Tesla)
- _____ Spectrometer: Circular Dichroism

High-Performance Mass Spectrometry

HOURS

- _____ Mass Spec: Fourier transform
- _____ Mass Spec: Ion trap
- _____ Mass Spec: Quadrupole ToF

Interfacial and Nanoscale Science

HOURS

- _____ Catalysis: UHV Model Catalysts, High Pressure
- _____ Deposition: Chemical Vapor, Oxide Metalorganic
- _____ Deposition: Molecular Beam Epitaxy #1
- _____ Deposition: Molecular Beam Epitaxy #2
- _____ Deposition: Pulsed Laser Deposition System
- _____ Electron Microscope: Scanning, Field Emission (LEO)
- _____ Electron Microscope: Transmission, High Resolution
- _____ Electron Microscope: FIB/SEM
- _____ Electron Microscope: Transmission, CRYO 2005
- _____ Electron Spectrometer: Auger/Scanning Auger
- _____ Electron Spectrometer: HREELS, UHV Surface Chemistry
- _____ Electron Spectrometer: XPS/AES (Kratos multitechnique)
- _____ Electron Spectrometer: Scanning Multiprobe Surface Analysis System (Versaprobe)
- _____ Electron Spectrometer: XPS High Resolution (Quantum)
- _____ Ion Accelerator, Beam Lines, and End Stations

HOURS

- _____ Microfabrication Laboratory (Clean Room)
- _____ Microscope: Scanning Probe - DI Nanoscope IIIa Multimode
- _____ Microscope: Scanning Probe - Variable Temperature
- _____ Transient Kinetic Analysis

Molecular Science Computing

HOURS

_____ Computing: Altix1 Cluster
_____ Computing: Data File Storage (NWfs)

HOURS

_____ Computing: MPP2 (HP 1960-Processor Linux Cluster)
_____ Computing: Chinook (HP 2310-Node Linux Cluster)
_____ Computing: SGI 16-Processor Graphics Server (nwvisus)

Environmental Spectroscopy and Biogeochemistry

HOURS

_____ Analytical: Chromatograph – Ion
_____ Analytical: Chromatograph – Liquid
_____ Analytical: Inductively Coupled Plasma-Mass Spec (ICP-MS)
_____ Analytical: Total Organic Carbon Analyzer (TOC)
_____ Analytical: Gas/Mass Spec System 2005
_____ Computing: Spokane Cluster
_____ Microscope: Raman Confocal
_____ Microscope: Scanning Probe - AFM, Bioscope
_____ Microscope: Scanning Probe - Dynamic Force
_____ Microscope: Scanning Probe - STM/AFM, PicoSPM
_____ Spectrometer: Fluorimeter

HOURS

_____ Spectrometer: Fluorescence, cryogenic
_____ Spectrometer: Fluorescence, picosecond
_____ Spectrometer: Fluorescence, time-resolved
_____ Spectrometer: FTIR
_____ Spectrometer: Mossbauer
_____ Spectrometer: Stopped-Flow, Absorbance
_____ Subsurface Flow & Transport Experimental Lab
_____ X-ray Diffraction: Four Circle
_____ X-ray Diffraction: General Purpose
_____ X-ray Diffraction: Single Crystal
_____ X-ray Diffraction: Microbeam
_____ X-ray Diffraction: Special Applications

Chemistry and Physics of Complex Systems

HOURS

_____ Atmospheric Pressure Reactor System
_____ Electron and Photon Stimulated Desorption (BES 2)
_____ Electron Microscope: Scanning, Environmental, Field Emission (FEI)
_____ Electron Spectrometer: XPS with laser interface
_____ Energetic Processes (Surfaces/Solids) Instrumentation
_____ Liquid Beam Source
_____ Mass Spectrometer: FT-ICR, 6 Tesla
_____ Mass Spectrometer: Aerosol - time-of-flight
_____ Mass Spec: Laser Desorption Ion Trap
_____ Mass Spectrometer: Linear Ion Trap Quadrupole (LTO) Orbitrap MS for environmental research
_____ Mass Spectrometer: Proton Transfer Reaction (PTRMS)
_____ Mass Spectrometer: Single Particle - (SPLAT II)
_____ Mass Spectrometer: Time of Flight Secondary Ion (ToF-SIMS)
_____ Mass-Selected Ion Deposition System - electrospray source
_____ Microscope: Fluorescence - Single-Molecule
_____ Microscope: Fluorescence - Single-Molecule/Patch clamp
_____ Microscope: Photoemission Electron (PEEM)

HOURS

_____ Microscope: Scanning Probe - AFM Compound
_____ Microscope: Scanning Probe -Variable Temperature UHV
_____ Molecular Beam Kinetics
_____ Photoelectron Spectroscopy – Electrospray Source
_____ Photoelectron Spectroscopy - Low temperature
_____ Photoelectron Spectroscopy of Atomic Clusters – Laser Vaporization Source
_____ Spectrometer: FTIR - HR
_____ Surface Dynamics/Ion Deposition System
_____ Tissue-Culture Facility

Proposal Funding

Funding Agencies:

Select the funding agencies associated with your proposed research.

- Department of Defense
- DOE, Office of Advanced Scientific Computing Research
- DOE, Office of Biological & Environmental Research
- DOE, Office of Environmental Management
- DOE, Office of Nonproliferation & National Security
- DOE, Other: _____
- Environmental Protection Agency
- Foreign Government Agency
- Industry, Foreign
- Industry, U.S.
- LDRD, Other National Lab
- LDRD, PNNL
- National Aeronautics and Space Administration
- National Institutes of Health
- National Science Foundation
- Nuclear Regulatory Commission
- Other U.S. Government Agency: _____
- University, Foreign
- University, U.S.
- Other (please specify): _____

Work Package # (required for PNNL employees so the EMSL Business Office can verify if the work is government or private)

Materials & Equipment

Will your research involve the use of human blood, tissues, DNA, cells, cell lines, or human biological samples in any form?

Yes No

Does your work involved the use of live animals?

Yes No

Will you be bringing or sending any chemicals to the EMSL facility?

Yes No

Will you be bringing or sending any samples to the EMSL facility?

Yes No

If you intend to bring or send any chemicals, samples, or equipment to EMSL for this proposed research, please list it here. If you are bringing computers that will need to connect to the PNNL network, please list them as well.

Comments/Additional Needs

If you have any additional needs or comments regarding the proposal or the process, please enter them here:
