

NSLS-II Research Equipment Pool (REP)

S. LaMarra

NSLS II Town Meeting, 27 February 2018



Overview:



- Research Equipment Pool (excluding detectors)
 - Managed by Steve LaMarra under Research Operations Support group
- Detector Pool
 - Managed by Jeff Keister
- The Vision
 - Increase the capability of each beamline and laboratory
 - Provide Manuals, specifications, setup procedures, troubleshooting notes, etc.
 - Undertake preventative maintenance, inspections and repairs as needed
 - Get detector systems up and running at beamlines



How to request equipment

NSLS-II Research Equip

public.bnl.gov/sites/rep/SitePages/Home.aspx

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NSLS-II Research Equipment Pool Home

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Welcome to NSLS-II Research Equipment Pool

The Research Equipment Pool (REP) is managed by the Research Operations Support (ROS) group and the Detector Pool is managed by Jeff Keister. The REP supports the NSLS-II scientific community by providing equipment for short term loan to researchers conducting experiments at NSLS-II beamlines and laboratories.

To Request Equipment: Beamline staff or laboratory Cognizant Space Manager submits a loan request by emailing REP@bnl.gov. Please include:

- item-ID
- date(s) you need the item
- the beamline or laboratory where the item will be used

You may request more than one item.

For more information about the REP program or a specific piece of equipment email us at REP@bnl.gov or call [631-344-6092](tel:631-344-6092). In addition we welcome your suggestions on items you would like to see in the NSLS-II Research Equipment Pool.

Click here for the [Equipment List](#)

Contact Info

Research Equipment Pool

REP program
REP@bnl.gov
[631-344-6092](tel:631-344-6092)

Steve LaMarra
slamarra@bnl.gov
[631-344-5312](tel:631-344-5312)

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[631-344-8033](tel:631-344-8033)

Mike Buckley
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[631-344-8097](tel:631-344-8097)

Detector Pool

Jeff Keister
jkeister@bnl.gov
[631-344-2274](tel:631-344-2274)

Available Equipment - Website

The screenshot shows the Brookhaven National Synchrotron Light Source II website. The browser address bar displays <https://www.bnl.gov/ps/>. The website header includes the Brookhaven National Laboratory logo, the text "National Synchrotron Light Source II", and the U.S. Department of Energy logo. A navigation bar contains links: Home, About, For Users & Staff, For Industry, Beamlines, Research, News & Publications, People, and Intranet. The "For Users & Staff" menu is open, showing options: Machine Status, Operating Schedule, PASS, User Guide, User Laboratories, Research Equipment Pool (highlighted), Users' Executive Cmte., User Services Office, and Environment, Safety & Health. Below the menu is a large image of the NSLS-II facility with three orange buttons: Machine Status, Operating Schedule, and User Guide. A yellow banner states: "The next deadline for NSLS-II beam time proposals and beam time requests is **May 31, 2018**. | ► [Submission Details](#)". Below this, a yellow box with a user icon icon says: "Beginning January 2, 2018: All User Access Cards and TLDs Will Be Issued at the GUV Center (Bldg. 400)". The main content area is divided into three sections: "Become a Facility User" (with a text paragraph and an "Apply for Beam Time" button), "Beamline Projects" (with a text paragraph and a "Beamline Directory" button), and "Announcements" (with a list of five items). At the bottom right, there is a "Seminars" section with a "Full Calendar" link and a calendar snippet for February showing "NSLS-II Friday Lunchtime". The footer of the website includes the U.S. Department of Energy logo, "Office of Science", and the Brookhaven National Laboratory logo with "National Synchrotron Light Source II".


public.bnl.gov/sites/rep/SitePages/Home.aspx



NSLS-II Research Equipment Pool

▸ Equipment ▸ By Category, Sub Category, Name ▾

Photon Sciences

Search this site... 

	Item ID	Item Name	Vendor	Model	Description Short	Image Thumbnail	Status	Available	Manual	User Guide	Datasheet	Specification	Quick Ref
Category	⊕ Category : Alignment & Measurements (19)												
Subcategory	⊕ Category : Beamline Components Available for Transfer (20)												
Series	⊕ Category : Detectors (19)												
Full Site Content	⊕ Category : Electronics (33)												
	⊕ Category : Foil, Standards and Test Target (35)												
	⊕ Category : Radiation Sources (6)												
	⊕ Category : Temperature (11)												
	⊕ Category : Tools (4)												
	⊕ Category : Vacuum (2)												

Item ID	ELE-BR-001
Item Name	Battery Cycler
Vendor	Bio-Logic
Model	VSP-300
Category	Electronics
Sub Category	Battery Research
Description Short	Multichannel Potentiostat / Galvanostat
Description Long	A versatile instrument offering 6 slots to set from 1 to 6 channel boards. Each channel board can accomo low current cable and can be associated with one or several booster kits.
Status Available	loaned out 1/27 - 2/2/18 (3LL09) 10/18 - 10/23/17 (8-BM) 10/24 - 10/29 (8-ID)
Image Primary	



Manual	VSP-300 installation and configuration
User Guide	EC-Lab software manual
Specification	EC-Lab software Data Process
Quick Reference	EC-Lab software Applications manual

Loan Request Process

- Users are encouraged to work closely with Beamline Staff / Laboratory Cognizant Space Manager (CSM)
 - These people will submit the support request, providing
 - Item-ID, Beamline or Laboratory, Date(s), SAF (via email to REP@bnl.gov)
 - Sufficient advance notice for reservation, allowing
 - Integration of item with beamline controls
 - Infrastructure support: electrical power, cooling water, etc.
- User and beamline feedback is welcome
 - Equipment needed for your research
 - What are we doing right and how can we do better

NSLS-II Detector Pool

J. Keister

NSLS II Town Meeting, 27 February 2018

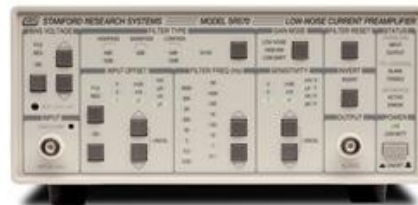


Mission of the Detector Pool

- Support the science of the beamlines
- Maintain availability of commonly used detector systems, for spare and added functionality
- Deliver working detector systems, including support of initialization, calibration and testing

Example Detector Systems

- Point Detectors and electronics
 - Ion chambers and power supplies
 - Photodiodes
 - Current amplifiers and meters



Example Detector Systems

- Spectroscopic detectors and electronics
 - e.g. Vortex 90EX
 - xspress3mini readout



Example Detector Systems

- Imaging detector systems
 - Pilatus 100k
 - Eiger 1M



Capabilities currently in development

Integration

- Support from electrical engineers and technicians
- Defining hardware interfaces to beamlines, e.g.
 - Dry nitrogen
 - Network interface
- Controls and DAMA support, e.g.
 - EPICS
 - CSS
 - Bluesky