

ESR #	PI Name	Expires	Status (07/24/2020)	Project	NEPA #	Title	Area(s)	Summary	Physical	Chemical	Environm.	Radiation
PO-011-2017	Zhangbu Xu	Aug-20	APPROVED	STAR		STAR detector testing and development	0510-1-227	Activities related to development and testing of detector components that will be used for STAR upgrades	EL, CG, SO, FL			
PO-018-2016	Stephen Boose	Jun-21	APPROVED	sPHENIX		sPHENIX Electronic Support	0510-1-91	Conventional electronic assembly and testing techniques are used in support of PHENIX electronics.	EL, SO, FL			
PO-025-2016	John Hammond	Aug-20	APPROVED	STAR		STAR Electronics Support Group	0510-1-231, 0510-1-236, 0510-1-238	Perform R&D work on STAR Detector electronics, including maintenance and support.	EL, PT, SO, FL, SH, FA		HW (Spraycans)	
PO-030-2016	Hucheng Chen	Aug-20	APPROVED	Omega / DUNE		Cryogenic Test of Front End Electronics for LBNE LAr TPC	0510-1-142 (High Bay)	Activities related to the test and evaluation of front end electronics in cryogenic temperature.	CR, EL, SO			
PO-031-2016	David Lynn	Oct-20	APPROVED	Omega		Silicon/Electronics Lab for Atlas Upgrade R&D	0510-2-80	Testing of electronics and silicon detectors occurs.	EL, CG, SO, FL			SRS-NA, LAS
PO-035-2016	Rachid Nouicer	Sep-20	APPROVED	sPHENIX		Intermediate Silicon Tracker (INTT) for sPHENIX Experiment at RHIC	0510-2-211	Testing of the Intermediate Tracker (INTT) is a part of the particle tracking detectors of sPHENIX. The INTT detector consists of four barrel layers of silicon strip detectors.	EL, CG, SO			SRS-NA
PO-042-2015	Yichen Li	Jul-21	APPROVED	Electronic Detector Group (EDG)		Measurement of Electron Transport Properties in LAr	0510-1-142	The project is developments and characterization of LAr TPCs.	CR, PV, EL, CG, SO, FG			SRS-NA, LAS
PO-044-2015	Wlodzimierz Guryn	Sep-20	APPROVED	RHIC Spin		Detector and data acquisition research and development, RHIC polarimeter detector and DAQ testing, EIC Si detector development.	0510-1-213	The project involves the design, construction and test of primarily silicon and scintillation detectors, detector control and readout, and data acquisition systems for the pp2pp subsystem of the STAR detector at RHIC.	EL, SO, CG			SRS, SRS-NA, LAS
PO-048-2015	Millind Diwan	Oct-20	APPROVED	Electronic Detector Group (EDG)		Design, Construction, and Testing of detectors and other mechanical and electrical assemblies to support particle physics experiments.	0510-2-224	design, construct, and test equipment for particle physics experiments and to analyze and publish results of these studies. The current experimental effort is concentrated on neutrino, kaon CG and muon experiments.	EL, SH, SO, PT, FL, CG	Liquid Scint.	HW (Oils)	LAS
PO-064-2015	Matthew Rumore	Aug-20	APPROVED	Instrumentation		LSST clean room activities and Sci-Raft assembly.	0510-1-260	Perform optical, electronic and mechanical measurements on CCD sensors for use in the LSST project. Assemble and test Sci-Raft components. Testing is done according to appropriate QA requirements and procedures that are under development. The assembly and testing is done in the S10 first floor clean room.	CG, FL			SRS-NA, LAS
PO-065-2015	David Lynn	Aug-20	APPROVED	Omega		Assembly of modules for Atlas silicon strip detectors	0510-1-208	Assembling and testing Atlas silicon strip modules. This involves gluing silicon chips to kapton circuits, and gluing kapton circuits to silicon strip detectors. We will electronically test the completed units called modules.	EL, CG			
PO-069-2016	Robert Pisani	Sep-20	APPROVED	sPHENIX		sPHENIX experimental support	0510-2-205-LAB	Support and development for various detectors that are part of future sphenix experiment at RHIC and general R&D. These include work for the Electromagnetic and Hadronic Calorimeters, Silicon Detectors, Time of Flight prototyping, and any support equipment that may need building and testing	EL, CG, PT, SO, SH, FL		HW (Epoxy)	
PO-070-2016	Anze Slosar	Oct-20	APPROVED	Astrophysics		BMX Demonstrator	0510-1-127-LAB, 0839-1-1, Overflow Basin #3	Install prototype radio telescope in BNL field area, Overflow Basin #3. Allow flying of Unmanned Aerial Vehicles (UAVs) for calibration purposes.	EL, PT, LA, TM			
PO-071-2017	Kenneth Sexton	Aug-20	APPROVED					being re-written ( PO-082-2020)				
PO-072-2018	Craig Woody	Aug-20	APPROVED	sPHENIX	EA-0508	sPHENIX Detector Support and Development - Calorimeter Labs	0510-1-116-LAB, 0510-2-201-LAB, 0510-2-236A-LAB, 0510-2-83-TECH SHOP	support and development of the calorimeter prototypes and detectors that are part of the sPHENIX experiment	EL, SO, SH, PT, FL, CG	Lead bricks	HW (Epoxy)	SRS, SRS-NA, LAS
PO-073-2018	Craig Woody	Aug-20	APPROVED	sPHENIX	EA-0508	sPHENIX EMCal Factory and Testing	0510-2-81, 0510-2-82, 0510-1-142	development, production, and support of the calorimeter prototypes and detectors	EL, SO, FL, CG, ER			
PO-074-2018-OCT-10	Hucheng Chen	Feb-21	APPROVED	Omega		ATLAS electronics testing lab	0510-1-203, 0510-1-82	test and certification of the Liquid Argon calorimeter front-end electronics	EL, SO			
PO-075-2018-DEC-20	David Lynn	Oct-20	APPROVED	Omega		Assembly and testing of hybrids, modules, and staves for the ATLAS Silicon Strips Upgrade	0510-1-151, 0510-1-260	assembly space where we will assemble hybrids, modules, and staves	EL, CG, LA			LAS
PO-076-2018-DEC-21	Manhong Zhao	Nov-20	APPROVED	DUNE		DUNE APA cabling mock up	0902-Annex	build a DUNE APA cabling mockup to practice CE box installation, APA cable routing, and signal penetration chimney installation	LA, ER, PT			
PO-077-2019	Yichen Li	Jun-21	APPROVED	Electronic Detector Group (EDG)		Measurement of Electron Transport Properties in LAr	0510-1-142 (High Bay)	developments and characterization of LAr TPCs	CR, EL, SO, CG, PV			SRS-NA, LAS
PO-078-2019	Andrei Nomerotski	Aug-20	APPROVED	Cosmology		Time resolved imaging with fast camera	0510-2-225A, 0510-2-225B	Perform characterization of several types of fast imagers using a visible light laser with sub-nsec timing resolution	EL, SO			SRS-NA, LAS
PO-079-2019	Leslie Bland	Aug-20	APPROVED	STAR		STAR FHC upgrade and detector development.	0510-2-87	testing of photosensors and other Forward Hadron Calorimeter (FHC) upgrades and other detector development	EL, SP, PT, FL			
PO-080-2019	Babak Azmoun	Oct-20	APPROVED	sPHENIX		sPHENIX Detector Support and Development - Gas Detectors	0510-2-198, 0510-2-208	continued support and development of various detectors that are part of the sPHENIX experiment at RHIC and other new detectors which are planned as part of the STAR upgrade programs or for the NEXO neutrino-less double beta decay experiment.	LA, PT, CG, SO, FL, EL	TOM	SF6	SRS, SRS-NA, LAS, RGD, UV
PO-081-2019	Vladimir Tishchenko	Oct-20	APPROVED	Electronic Detector Group (EDG)		Design, Construction and Testing of detectors and other mechanical and electrical assemblies to support particle physics experiments.	0510-2-233	design, construct, and test equipment for particle physics experiments and to analyze and publish results of these studies. The current experimental effort is concentrated on neutrino, kaon and muon experiments that are currently running or are being proposed to run at sites remote from BNL.	EL, PT, SH, SO, CG, FL			SRS-NA, LAS
PO-082-2020	William Fielitz		RECEIVED	Omega / DUNE		Short Baseline Neutrino Detector, Deep Underground Neutrino Detector, Atlas	0510-1-216, 0510-1-86	perform electromechanical work and cryogenic testing	CR, SH, EL, SO, CG, FL, PV		Oils	

CR = Cryogenics  
 EL = Electrical Hazard  
 CG = Compressed Gas  
 SO = soldering, electronics work  
 LA = Ladders, Fall hazards  
 SH = Sharps (non-biohazard)  
 PT = Power Tools  
 PV = Pressured Vessel  
 TM = Extreme Temperature (Hot or Cold)  
 ER = Ergonomics and Material handling  
  
 HW = Hazardous Waste  
 TOM = Toxic metals (e.g., As, Ba, Be, Cd, Cr, Hg, Pb, Se, Ag)  
  
 SRS = Sealed Radioactive Source  
 SRS-NA = Sealed Radioactive Source non-accountable  
 LAS = Lasers  
 RGD = Radiation-generating devices Exempt Non-Exempt  
  
 FL = Flammable Liquids  
 FG = Flammable Gas