

U.S. DEPARTMENT OF ENERGY

Nuclear Energy University Program FY10 University Selection for Infrastructure Awards

(Actual project funding will be established during contract negotiation phase)

UNIVERSITY	EQUIPMENT AND/OR PURPOSE	AWARDED
<i>Major Reactor Upgrades:</i>		
North Carolina State University	Upgrade of the Power of the PULSTAR Reactor from 1-MWth in Support of Nuclear Engineering Education and Research	\$1,378,987
University of Missouri, Columbia	Upgrade of the University of Missouri Research Reactor (MURR) Cooling Tower Cells	\$1,298,000
Massachusetts Institute of Technology	Infrastructure Upgrade to the Massachusetts Institute of Technology Research Reactor (MITR) in Support of In-Core Materials Irradiations, Radiation Detection, and Operational Safety	\$624,292
Texas A&M, Texas Engineering Experiment Station	Cooling Tower Replacement, Replacement of the Nuclear Science Center Fire Alarm System, Whole Body Exit Monitor, Airborne Material Control, Facility Air Monitoring System	\$451,136
<i>Minor Reactor Upgrades:</i>		
Colorado School of Mines	High Resolution Digital Neutron Imaging and Computed Neutron Tomography	\$142,460
Idaho State University	Idaho State University Nuclear Energy University Program Reactor Upgrade	\$145,107
Kansas State University	Educational and Research Infrastructure Enhancement at the Kansas State University Reactor	\$147,381
Missouri University of Science and Technology	An Active Heat Removal System for Continuous Operation of the Missouri University Science and Technology Reactor (MSTR)	\$200,000
University of New Mexico	University of New Mexico AGN-201M Equipment Upgrades	\$50,000
The Ohio State University	Upgrade the Ohio State University Research Reactor Heat Removal System and to Construct a Cryogenic	\$200,000

	Irradiation Facility	
Rensselaer Polytechnic Institute	Upgrading the Walthousen Reactor Critical Facility (RCF) to a Modern Nuclear Reactor Laboratory	\$200,000
University of California, Irvine	Equipment Upgrades for Safety and Research	\$197,344
University of Massachusetts, Lowell	Reactor Equipment Upgrade	\$200,000
University of Texas, Austin	Reactor Upgrades of Nuclear Engineering Teaching Laboratory	\$200,000
University of Wisconsin, Madison	Nuclear Reactor Infrastructure Upgrade: Prompt Gamma Ray Neutron Activation Analysis (PGNAA) System	\$149,909
University of Utah	Reactor Specific Infrastructure – Minor Reactor Upgrade	\$149,984
<i>General Scientific Infrastructure:</i>		
Alcorn State University	Enhancing the Learning Experience of Health Physics Students Through Training and Practice	\$252,810
Boise State University	Acquisition of a Scanning Electron Microscope (SEM) for Microstructural and Chemical Analysis of Nuclear Materials	\$260,000
Colorado School of Mines	Sub-micrometer Scale Tomographic Examination of Activated Materials	\$208,550
Columbia Basin College	Radiological Protection Technology Equipment Acquisition Program	\$166,389
Drexel University	Instrumentation for Research and Education in Nuclear Engineering and Nuclear Materials Science: Quantifying Radiation Damage and Detection in Reactor Materials	\$299,486
Georgia Tech	Radiation Detection and Nuclear Materials Equipment to Enhance Education and Research in Nuclear and Radiological Engineering	\$250,000
Illinois Institute of Technology	Stress-Strain Measurements Using Illinois Institute of Technology Beamlines with a Two-Dimensional, X-ray Area Detector Coupled to Both Radioactive and Non-Radioactive Tensile Stages	\$247,280
Massachusetts Institute of Technology	General Scientific Infrastructure Application of the Department of Nuclear Science and Engineering at Massachusetts Institute of Technology	\$187,654
Missouri University of Science and Technology	Nuclear Infrastructure Upgrade to Enhance Research and Teaching Capabilities	\$300,000
North Carolina State University	Dual Ion Beam Assisted Deposition	\$300,000

	(IBAD) System for Densification and Interface Modification of Nuclear Fuel Coatings and Innovative Energy-Related Materials	
The Ohio State University	The Ohio State's General Scientific Infrastructure Support Proposal	\$275,361
Oregon State University	Reinvestment in Nuclear Engineering and Radiation Sciences Education	\$88,472
Rensselaer Polytechnic Institute	New Research and Development and Teaching Laboratory Experiments	\$300,000
South Dakota State University	Nuclear Counting Infrastructure for the Nuclear Laboratory at South Dakota State University	\$118,865
Syracuse University	Equipment for Broad Based Nuclear Engineering Track Program	\$107,319
Texas A&M, Texas Engineering Experiment Station	Infrastructure Enhancement Via Optical, Ultrasonic and Thermal Imaging Equipment	\$286,000
University of Alabama	Infrastructure for an Actinide Chemistry Laboratory for Research and Education Emphasizing Safety, Crystallography, and Spectroscopy/Electrochemistry	\$299,588
University of California, Berkeley	Department of Nuclear Engineering Infrastructure Upgrade Request: Materials Property Characterization and Advanced Scientific Computing	\$300,000
University of Colorado	Materials Thermophysical Properties Analysis and Characterization for Nuclear Engineering	\$217,664
University of Florida	Multi-User Thermophysical Characterization System for Nuclear Energy University Program Research, Training, and Education	\$162,435
University of Idaho	Request to Enhance Experimental and Computational Capabilities to Support Nuclear Energy Research and Development	\$250,000
University of Illinois, Urbana – Champaign	A Neutron Source and Imaging Facility	\$148,000
University of Michigan	New Laboratory for Research and Teaching in Nuclear Nonproliferation	\$160,400
University of Missouri	Support and Enhancement of Capabilities in Fission Product Transport Education and Research	\$251,845
University of Nevada, Reno	Infrastructure Support for Electron Microscopic Facility for Characterization of Irradiated Materials and Collaborative Research in Advanced Nuclear Materials	\$248,500
University of New Mexico	University of New Mexico Nuclear	\$224,671

	Engineering Infrastructure Proposal	
University of Rhode Island	Nuclear Radiation Measurements Laboratory	\$211,587
University of South Carolina	Advanced Nuclear Materials Laboratory Enhancements	\$200,500
University of Tennessee	The Nuclear Engineering Department at University of Tennessee will Utilize the Infrastructure Funds to Expand and Revitalize its Laboratories Used for Course Instruction and Faculty-Led Research	\$210,173
University of Wisconsin, Madison	Advanced Nuclear Technology Development Infrastructure	\$246,173
Utah State University	Thermophysical Property Determination at Microscale for Nuclear Materials	\$270,000
Washington State University	Proposal to Fund the Purchase of a Single Crystal X-Ray Diffractometer for the Washington State University Radiochemistry Program	\$257,050
Wilberforce University	General Scientific Infrastructure Support for Nuclear Engineering at Wilberforce University and Central State University	\$146,131

FY10 University Selection for Scholarship Awards
(\$5,000 each award for 1 year)

UNIVERSITY	NO.
Boise State University	2
Francis Marion University	3
Georgia Institute of Technology	3
Idaho State University	5
Illinois Institute of Technology	1
Kansas State University	1
Missouri University of Science & Technology	4
North Carolina State University	3
The Ohio State University	10
Oregon State University	3
Pennsylvania State University	4
Purdue University	1
Rensselaer Polytechnic Institute	2
Saint Louis University	1
Texas A&M University	5
University of Florida	1
University of Idaho	2
University of Illinois, Urbana-Champaign	9
University of Massachusetts, Lowell	1

University of Michigan	9
University of Pittsburgh	1
University of South Carolina	1
University of Tennessee	4
University of Wisconsin, Madison	2
Utah State University	5
Virginia Polytechnic Institute and State University	2

FY10 University Selection for Fellowship Awards
(\$150,000 each award for 3 years)

UNIVERSITY	NO.
Colorado School of Mines	1
Georgia Institute of Technology	2
Massachusetts Institute of Technology	3
Mississippi State University	1
North Carolina State University	1
Northwestern University	1
The Ohio State University	2
Oregon State University	2
Purdue University	1
Rensselaer Polytechnic Institute	1
Texas A&M University	2
University of California, Berkeley*	2
University of California, Los Angeles	1
University of California, Santa Barbara	1
University of Florida	1
University of Michigan	3
University of Texas, Austin	2
University of Wisconsin, Madison	2
Utah State University	1
Virginia Polytechnic Institute and State University*	1
Washington State University	1

*Indicates that a student from this university requested less funding than the 3-year \$150,000 total.