

**Proposals Submitted to the
Traditional Enhancement Program - Chemistry
for the FY 2007-2008 Review Cycle**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
001CHE-08 CHE	Instrumental Tools for Enhanced Teaching of Biomolecular Science	Dillard University (Natural Sciences and Public Health);	Ruby Broadway; Sonya Caston;	1	\$ 81,653
				Total	\$ 81,653

E

Proposal is a **New Request**

002CHE-08 CHE	Enhancing the Instrumental Analysis Laboratory for Instruction and Research-Phase I	Dillard University (Chemistry);	Sonya Caston; Gail Cesar; Lovell Agwarambo; Ruby Broadway;	1	\$ 127,774
				Total	\$ 127,774

E

Proposal is a **New Request**

E=Primarily an Equipment Request

N=Not Primarily an Equipment Request

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
003CHE-08 CHE	Enhancement of Bio-Based Processing Facilities at the Louisiana Forest Products Development Center	Louisiana State University And A&M College - Agricultural Center (Renewable Natural Resources);	Todd F. Shupe;	1 2 Total	\$ 97,494 \$ \$ 97,494
E					
Proposal is a New Request					
004CHE-08 CHE	Advanced Raman Spectroscopy for Applied Chemistry Research and Development	Louisiana State University And A&M College - Agricultural Center (Renewal Natural Resources);	Qinglin Wu; Donghui Zhang; Kun Lian;	1 Total	\$ 230,475 \$ 230,475
E					
Proposal is a New Request					
005CHE-08 CHE	Acquisition of Micro-Focusing Silicon Mirrors and High Performance Motion Controllers/Drivers for In Situ Studies of Chemical Processes in Microreactors	Louisiana State University And A&M College - Baton Rouge (Center for Advanced Microstructures and Devices (CAMD));	Vadim Palshin; Challa Kumar; Josef Hormes;	1 Total	\$ 33,270 \$ 33,270
E					
Proposal is a New Request					

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006CHE-08 CHE	Polarimetry, Optical Rotatory Dispersion, and Reaction IR Spectroscopic Equipment	Louisiana State University And A&M College - Baton Rouge (Chemistry);	George G. Stanley; Carol M. Taylor; Donghui Zhang;	1	\$ 129,265
				Total	\$ 129,265

EProposal is a **New Request**

007CHE-08 CHE	Enhancement of the Biochemistry Laboratory Courses at LSUS	Louisiana State University And A&M College - Shreveport (Chemistry and Physics);	Elahe Mahdavian; M. Cran Lucas; Richard E. Thompson;	1	\$ 72,432
				Total	\$ 72,432

EProposal is a **New Request**

008CHE-08 CHE	Enhancement of the Chemistry Laboratory Courses at LSUS	Louisiana State University Health Sciences Center - Shreveport (Chemistry and Physics);	Elahe Mahdavian; Brian A. Salvatore; Cynthia J. Sisson; Richard E. Thompson;	1	\$ 122,559
				Total	\$ 122,559

EProposal is a **New Request**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
009CHE-08 CHE	Bridging Molecular Modeling and Chemical Synthesis to Enhance Inquiry-Based Learning	Louisiana State University And A&M College - Shreveport (Chemistry and Physics);	Brian A. Salvatore; Elahe Mahdavian;	1	\$ 98,500
				Total	\$ 98,500
E	Proposal is a New Request				
010CHE-08 CHE	Infrared Spectroscopy Use in Undergraduate Organic Chemistry Labs	Louisiana Tech University (Chemistry);	Marilyn B. Cox;	1	\$ 55,950
				Total	\$ 55,950
E	Proposal is a New Request				
011CHE-08 CHE	Enhancement of the Analytical Chemistry and Instrumental Analysis Labs	Louisiana Tech University (Chemistry);	Sven Eklund;	1	\$ 54,475
				Total	\$ 54,475
E	Proposal is a New Request				
Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested

012CHE-08 CHE	Acquisition of Differential Scanning Calorimeters for Undergraduate and Graduate Laboratories and Research	Louisiana Tech University (Chemistry);	Frank Ji;	1	\$ 57,100
				Total	\$ 57,100

EProposal is a **New Request**

013CHE-08 CHE	Enhancement of Graduate and Undergraduate Education in Chemistry, Biological Sciences and Nanotechnology Through Practical Training	Louisiana Tech University (Institute for Micromanufacturing, Chemistry, and Biological Sciences);	David Mills; Alfred Gunasekaran; Sidney Sit; Tabbetha Dobbins;	1	\$ 129,281
				Total	\$ 129,281

EProposal is a **New Request**

014CHE-08 CHE	Enhancement of Biogeochemical Analytical Capabilities at LUMCON	Louisiana Universities Marine Consortium (Marine Center);	Brian J. Roberts; Michael J. Dagg; Nancy N. Rabalais; Rodney T. Powell;	1	\$ 84,432
				Total	\$ 84,432

EProposal is a **New Request**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
015CHE-08 CHE	A Suite of Instruments to Enhance Forensic Science at Loyola	Loyola University New Orleans (Chemistry);	Thomas Spence; Joelle Underwood; Kurt Birdwhistell; William Walkenhorst;	1	\$ 192,085
				Total	\$ 192,085

E

Proposal is a **New Request**

016CHE-08 CHE	Modernization of Chemistry Teaching and Student Research Program	McNeese State University (Chemistry);	Joseph P. Emerson;	1	\$ 80,000
				Total	\$ 80,000

E

Proposal is a **New Request**

017CHE-08 CHE	Enhancement of Environmental Chemistry Education at Nicholls State University	Nicholls State University (Biological Sciences);	Raj Boopathy; Enmin Zou; Gary Lafleur; John Doucet;	1	\$ 66,128
				Total	\$ 66,128

E

Proposal is a **New Request**

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018CHE-08	C:SI-REAL (Chemistry: Stimulating Interest through Relevant Experiences in the Analytical Laboratory)	Nicholls State University (Physical Sciences);	April Dupre;	1	\$ 25,000
CHE				Total	\$ 25,000

EProposal is a **New Request**

019CHE-08	Enhancing Freshman Chemistry Laboratory with Fiber-Optic Spectrometers	Nicholls State University (Physical Sciences);	Glenn V. Lo;	1	\$ 26,088
CHE				Total	\$ 26,088

EProposal is a **New Request**

020CHE-08	Enhancing Biochemistry Experiences for Science Majors	Nicholls State University (Biological Sciences);	Rajkumar Nathaniel; David L. Shultz; Duane M. Smith;	1	\$ 70,000
CHE				Total	\$ 70,000

EProposal is a **New Request**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
021CHE-08 CHE	Enhancing Instrumental Capability for Heavy Metal Analysis	Nicholls State University (Biological Sciences);	Enmin Zou; Gary Lafleur; Raj Boopathy;	1	\$ 85,200
				Total	\$ 85,200

E

Proposal is a **New Request**

022CHE-08 CHE	Enhancement of the Undergraduate Chemistry Programs with NMR Spectroscopy	Northwestern State University (Scholars College);	Craig M. Harvey; Ashok Darisipudi; Darrell Fry; Fereydoun Aghazadeh; Margaret Cochran;	1 2	\$ 249,964 \$
				Total	\$ 249,964

E

Proposal is a **New Request**

023CHE-08 CHE	Enhancing Chemistry in the Community College	Nunez Community College (Health and Natural Science);	Stephen Waddell; Klaus Heyer;	1	\$ 212,655
				Total	\$ 212,655

E

Proposal is a **New Request**

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024CHE-08	A Nano	Pennington Biomedical	Indu Kheterpal;	1	\$ 509,028
CHE	Liquid-Chromatography-Tandem	Research Center (Proteomics			
	mass Spectrometer for Selective	Core Facility);		Total	\$ 509,028
E	Detection and Quantification of				
	Small Molecules				

Proposal is a **New Request**

025CHE-08	Advancing Mass Spectrometry	Southeastern Louisiana	Debra D. Dolliver; Ju Chou;	1	\$ 200,000
CHE	for Research Training and	University (Chemistry &	Michael Doughty; Phillip D.	2	\$
	Education at Southerstern	Physics);	Voegel;		
E	Louisiana University			Total	\$ 200,000

Proposal is a **New Request**

026CHE-08	The Enhancement of Peptide	Southern University and	Michelle O. Fletcher	1	\$ 64,652
CHE	Synthesis Capabilities for the	A&M College at Baton Rouge	Claville; Rao Uppu; Wesley	2	\$
	Purpose of Scientific Research	(Chemistry);	Gray;		
E	and Teaching at Southern			Total	\$ 64,652
	University				

Proposal is a **New Request**

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
027CHE-08	The Enhancement of Energy	Southern University and A&M	Edwin H. Walker, Jr.; Karen	1	\$ 75,400
CHE	Dispersive Spectroscopy	College at Baton Rouge	Crosby; Yadong Qi;	2	\$
	Capabilities for Research and	(Chemistry);			
E	Teaching at Southern			Total	\$ 75,400
	University				

Proposal is a **New Request**

028CHE-08	The Enhancement of Gas	Southern University and A&M	Edwin H. Walker, Jr.;	1	\$ 54,864
CHE	Chromatograph Mass	College at Baton Rouge	Michelle O. Claville;	2	\$
	Spectrometry Capabilities in	(Chemistry);	Sylvester Burton;		
E	the Chemical Sciences for			Total	\$ 54,864
	Research and Teaching at				
	Southern University				

Proposal is a **New Request**

029CHE-08	The Enhancement of Raman	Southern University and A&M	Edwin H. Walker, Jr.;	1	\$ 91,200
CHE	Spectroscopy Capabilities in	College at Baton Rouge	Kinesha Harris; Michelle O.	2	\$
	the Chemical Sciences for	(Chemistry);	Claville;		
E	Research and Teaching at			Total	\$ 91,200
	Southern University				

Proposal is a **New Request**

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030CHE-08 CHE	Upgrade of Mass Spectrometry Facilities for Chemical Analysis	Tulane University (Science and Engineering);	Mark J. Fink; James Donahue; Janarthanan Jayawickramarajah; Russell Schmehl; Scott Grayson;	1	\$ 115,244
				Total	\$ 115,244

EProposal is a **New Request**

031CHE-08 CHE	Construction of a Time Correlated Single Photon Counting System	Tulane University (Chemistry);	Mark Sulkes; Russell Schmehl; William Wimley;	1	\$ 112,910
				Total	\$ 112,910

EProposal is a **New Request**

032CHE-08 CHE	Thermal Analysis System to Support Ploymer Science Teaching and Research	University of Louisiana at Lafayette (Chemical Engineeering);	R.D. K. Misra; R.S. Srivastava;	1	\$ 147,675
				Total	\$ 147,675

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Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
033CHE-08 CHE	Purchase of GC-MS Spectrophotomer	University of Louisiana at Lafayette (Chemistry);	Radhey S. Srivastava; August A. Gallo;	1	\$ 77,949
				Total	\$ 77,949

E

Proposal is a **New Request**

034CHE-08 CHE	A DigiStore Documentation System for Enhancement of ULM Medicinal Chemistry Research	University of Louisiana at Monroe (Basic Pharmaceutical Sciences);	Khalid El Sayed;	1	\$ 12,168
				Total	\$ 12,168

E

Proposal is a **New Request**

035CHE-08 CHE	Enhancement of ULM College of Pharmacy NMR Spectrometer	University of Louisiana at Monroe (Basic Phamraceutical Sciences);	Khalid A. El Sayed; Ronald A. Hill; Seetharama D. Satyanarayanajois;	1	\$ 100,530
				Total	\$ 100,530

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036CHE-08 CHE	Introduction of Microwave Assisted Techniques to ULM's Chemistry Program	University of Louisiana at Monroe (Chemistry);	Thomas Junk; Harry O. Brotherton;	1	\$ 81,060
				Total	\$ 81,060

EProposal is a **New Request**

037CHE-08 CHE	Establishment of Microarray facility at ULM to Promote Drug Discovery and Pharmacology Study	University of Louisiana at Monroe (Basic Pharmaceutical Sciences);	Yonog-Yu Liu; Girish V. Shah; Harihara M. Mehendale; Karen Briski; Paul W. Sylvester;	1	\$ 110,000
				Total	\$ 110,000

EProposal is a **New Request**

038CHE-08 CHE	Circular Dichroism Spectropolarimeter for Enhancing Pharmaceutical Research	University of Louisiana at Monroe (Basic Pharmaceutical Sciences);	Seetharama D. Satyanarayanajois; Hussain Alamdar; Khalid El Sayed; Liu Yong-Yu; Nazzal Sami; Shah Girish;	1	\$ 63,150
				Total	\$ 63,150

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Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
039CHE-08 CHE	Acquisition of a Gas Chromatography-Mass Spectrometry Instrument for UNO - Chemistry	University of New Orleans (Chemistry);	Richard B. Cole; Bernard B. Rees; Bruce C. Gibb; Matthew A. Tarr; Yang Cai;	1	\$ 135,858
E				Total	\$ 135,858
Proposal is a New Request					
040CHE-08 CHE	Laser Flash Apparatus for High Temperature Determination of Thermal Diffusivity of Materials	University of New Orleans (Advanced Materials Research Institute and Chemistry);	Pierre F. Poudeu Poudeu; Heike Gabrisch; John B. Wiley; Kelvin Stokes; Paul Schilling;	1	\$ 203,310
E				Total	\$ 203,310
Proposal is a New Request					
041CHE-08 CHE	Purchase of a Single-Crystal X-ray Diffractometer for Structural Studies in Medicinal and Materials Chemistry	University of New Orleans (Chemistry);	Edwin D. Stevens; Branko S. Jursic; Bruce C. Gibb; Ferdinand P. Pondeu Pondeu; Guijun Wang; John B. Wiley; Mark L. Trudell;	1	\$ 194,980
E				Total	\$ 194,980
Proposal is a New Request					

Prop#	Title	Institution/Department	Principal Investigator(s)	Duration (Years)	BoRSF Money Requested
042CHE-08 CHE	A Multimode Scanning Probe Microscope for Effective Imaging and Characterization of Advanced Materials	University of New Orleans (Chemistry);	John B. Wiley; Bruce Gibb; C.J. O'Connor; Kevin Stokes; Leszek Malkinski; Matt Tarr; Wielie Zhou;	1	\$ 182,547
				Total	\$ 182,547

E

Proposal is a **New Request**

043CHE-08 CHE	Thermal Analysis System for Materials Characterization at the University of New Orleans	University of New Orleans (Chemistry);	John B. Wiley; Bruce Gibb; C.J. O'Connor; Matt Tarr; Ray Sweany;	1	\$ 167,160
				Total	\$ 167,160

E

Proposal is a **New Request**

Summary of Proposals Submitted to the Traditional Enhancement Program - Chemistry for the FY 2007-2008 Review Cycle			
Total Number of Proposals Submitted	Total First-Year Funds Requested	Total Funds Requested	Total First-Year Funds Available
43	\$ 5,081,465	\$ 5,081,465	\$