**C.T. BAUER COLLEGE OF BUSINESS**

**Small Business Development Center**

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**COLLEGE OF EDUCATION**

**Educational Psychology**

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Investigator: McFarlin, Brian Dr. 100%
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Agency: Under Armour
Pass_Thru Agency:
Agency Type: PROFIT
Duration: 2/1/2012 to 9/30/2012
CFDA: 00730 / 5022 / H0065 / B0001 / G104363 / 50336
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: The Effect of Different Types of Under Armour Heat Shirts on Body Temperature and Heat Loss Potential in a Sustained Exercise Model

Psychology

Investigator: Cirino, Paul Dr. 10%
Award Amount: $40,754.20
Cost Center: 00730 / 5013 / H0288 / B0001 / G101915 / 48475
Agency: Institute of Educational Sciences
Pass_Thru Agency:
Agency Type: FEDERAL
Duration: 8/15/2011 to 8/14/2013
CFDA: 84.305 National Institute on Student Achievement, Curriculum and Assessment
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Arithmetical and Cognitive Antecedents and Concomitants of Algebraic Skill

Investigator: Tolar, Tammy Dr. 10%
Award Amount: $40,754.20
Cost Center: 00730 / 5013 / H0288 / B0001 / G101915 / 48475
Agency: Institute of Educational Sciences
Pass_Thru Agency:
Agency Type: FEDERAL
Duration: 8/15/2011 to 8/14/2013
CFDA: 84.305 National Institute on Student Achievement, Curriculum and Assessment
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Arithmetical and Cognitive Antecedents and Concomitants of Algebraic Skill
COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES

Psychology

Investigator: Norton, Peter Dr. 90%
Award Amount: $54,600.30
Cost Center: 00730 / 5021 / H0125 / B0001 / G105190 / 50774
Agency: M. D. Anderson Foundation
Pass_Thru Agency: FOUNDATION
Agency Type: Restricted Research
Duration: 1/3/2012 to 4/30/2014
CFDA: 00730 / 5021 / H0125 / B0001 / G105190 / 50774

Investigator: Sharp, Carla Dr. 10%
Award Amount: $6,066.70
Cost Center: 00730 / 5021 / H0125 / B0001 / G105190 / 50774
Agency: M. D. Anderson Foundation
Pass_Thru Agency: FOUNDATION
Agency Type: Restricted Research
Duration: 1/3/2012 to 4/30/2014
CFDA: 00730 / 5021 / H0125 / B0001 / G105190 / 50774

Investigator: Fletcher, Jack Dr. 30%
Award Amount: $12,054.60
Cost Center: 00730 / 5013 / H0288 / B0001 / G101829 / 50853
Agency: National Institute of Child Health and Human Development
Pass_Thru Agency: Center for Research for Mothers and Children
Agency Type: Restricted Research
Duration: 8/1/2011 to 6/30/2012
CFDA: 93.865
Project Type: Grant - Research
Project Title: A Follow-up of Children Enrolled in the Management of Myelomeningocele Study
COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES

Psychology

Investigator: Cirino, Paul Dr.  
Award Amount: $5,091.60  
Cost Center: 00730 / 5013 / H0288 / B0001 / G096313 / 44890  
Agency: Vanderbilt University  
Pass_Thru Agency: National Institutes of Health  
Agency Type: FEDERAL  
Duration: 12/1/2008 to 11/30/2012  
CFDA: 00730 / 5013 / H0288 / B0001 / G096313 / 44890  
CB Designation: Restricted Research  
Project Type: Grant - Research  
Project Title: Calculations, Word Problems, and Algebraic Cognition

Investigator: Hannay, H. Julia Dr.  
Award Amount: $3,000.00  
Cost Center: 00730 / 5013 / H0125 / B0001 / G101502 / 46365  
Agency: University of Florida  
Pass_Thru Agency: NIH/Clinical Center  
Agency Type: FEDERAL  
Duration: 5/1/2010 to 4/30/2012  
CFDA: 00730 / 5013 / H0125 / B0001 / G101502 / 46365  
CB Designation: Restricted Research  
Project Type: Grant - Research  
Project Title: Outcome Measures for Biomarkers of Brain Pathology

COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Biology/ Biochemistry

Investigator: Schwartz, Robert Dr.  
Award Amount: $371,250.00  
Cost Center: 00730 / 5013 / H0104 / B0001 / G101187 / 45955  
Agency: National Heart, Lung, and Blood Institute  
Pass_Thru Agency:  
Agency Type: FEDERAL  
Duration: 11/1/2009 to 3/31/2013  
CFDA: 00730 / 5013 / H0104 / B0001 / G101187 / 45955  
CB Designation: Restricted Research  
Project Type: Grant - Research  
Project Title: The Role of Cysteine Rich Protein2 Binding Protein in Cardiovascular Development
**COLLEGE OF NATURAL SCIENCES AND MATHEMATICS**

**Biology/ Biochemistry**

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COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Biology/Biochemistry

Investigator: Cole, Blaine J. Dr. 25%
Award Amount: $22,461.50
Cost Center: 00730 / 5013 / H0104 / B0001 / G104024 / 50831
Agency: National Science Foundation
Pass_Thru Agency: FEDERAL
Duration: 5/1/2012 to 4/30/2013
CFDA: 00730 / 5013 / H0104 / B0001 / G104024 / 50831
Project Type: Grant - Research
Project Title: LTREB: Sources of variation in lifetime fitness of harvester ants.

Investigator: Gunaratne, Preethi Dr. 100%
Award Amount: $117,170.00
Cost Center: 00730 / 5018 / H0104 / B0001 / G103778 / 50627
Agency: University of Texas - Cancer Center (M.D. Anderson Hosp. & Tumor Inst.)
Pass_Thru Agency: Cancer Prevention and Research Institute of Texas
Duration: 12/1/2011 to 11/30/2012
CFDA: 00730 / 5018 / H0104 / B0001 / G103778 / 50627
Project Type: Grant - Research
Project Title: Investigating the roles of p63 in miRNA regulation in EMT and metastatic breast cancer

Chemistry

Investigator: Cai, Chengzhi Dr. 20%
Award Amount: $74,916.60
Cost Center: 00730 / 5013 / H0114 / B0001 / G104189 / 50786
Agency: National Eye Institute
Pass_Thru Agency: FEDERAL
Duration: 5/1/2012 to 4/30/2013
CFDA: 00730 / 5013 / H0114 / B0001 / G104189 / 50786
Project Type: Grant - Research
Project Title: The Role Of Antimicrobial Peptides at the Ocular Surface (changed from Defensins and Corneal Wound Healing)
COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Chemistry

Investigator: Gilbertson, Scott Dr. 100%
Award Amount: $10,850.46
Cost Center: 00730 / 5021 / H0107 / B0001 / G099553 / 44965
Agency: The Welch Foundation
Pass_Thru Agency: 
Agency Type: FOUNDATION
Duration: 6/1/2009 to 5/31/2012
CFDA: 
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: The Gulf Coast Consortium/Welch Foundation Computational Chemistry Research Program

Computer Science

Investigator: Gabriel, Edgar Dr. 34%
Award Amount: $8,027.06
Cost Center: 00730 / 5013 / H0108 / B0001 / G099753 / 46573
Agency: National Science Foundation
Pass_Thru Agency: 
Agency Type: FEDERAL
Duration: 6/1/2010 to 5/31/2013
CFDA: 47.070 Computer and Information Science and Engineering (CISE)
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: II-NEW: A Heterogeneous Testbed for Exploring Emerging HPC Tools, Programming Languages, and Applications

Investigator: Cheng, Albert M. K. Dr. 100%
Award Amount: $16,000.00
Cost Center: 00730 / 5013 / H0108 / B0001 / G104847 / 50838
Agency: National Science Foundation
Pass_Thru Agency: 
Agency Type: FEDERAL
Duration: 4/17/2012 to 7/31/2012
CFDA: 47.070 Computer and Information Science and Engineering (CISE)
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Collaborative Research: CSR/EHS Building Physically Safe Embedded Systems
### COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

#### Computer Science

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COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Computer Science

Investigator: Subhlok, Jaspal Dr. 33%
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Agency: National Science Foundation
Pass_Thru Agency: 
Agency Type: FEDERAL
Duration: 6/1/2010 to 5/31/2013
CFDA: 47.070 Computer and Information Science and Engineering (CISE)
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: II-NEW: A Heterogeneous Testbed for Exploring Emerging HPC Tools, Programming Languages, and Applications

Dean, Natural Sciences and Mathematics

Investigator: Smith, Mark Dr. 100%
Award Amount: $105,158.00
Cost Center: 00730 / 5043 / H0102 / B0001 / G105192 / 50829
Agency: Jet Propulsion Laboratory
Pass_Thru Agency: National Aeronautics and Space Administration - Headquarters (Wash., D.C.)
Agency Type: FEDERAL
Duration: 4/10/2012 to 9/30/2012
CFDA: 43.000 National Aeronautics and Space Administration
CB Designation: Restricted Research
Project Type: Contract - Research
Project Title: Titan National Astrobiology Institute

Geosciences

Investigator: Han, De-Hua Dr. 100%
Award Amount: $200,000.00
Cost Center: 00730 / 5022 / H0109 / B0001 / G094777 / 40041
Agency: Various Private Profit Agencies
Pass_Thru Agency: 
Agency Type: PROFIT
Duration: 1/1/2007 to 12/31/2020
CFDA: 
CB Designation: Restricted Research
Project Type: Contract - Research
Project Title: Fluid & Rock Properties and Seismic Hydrocarbon Indicators
### Geosciences

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### Institute for Multidimensional Air Quality Studies

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### Mathematics

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### Mathematics

**Investigator:** Field, Michael Dr.  
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**Pass_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 4/15/2012 to 3/31/2013  
**CFDA:** 47.049 Mathematical and Physical Sciences  
**CB Designation:** Restricted Research  
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**Investigator:** Nicol, Matthew Dr.  
**Award Amount:** $12,507.00  
**Cost Center:** 00730 / 5013 / H0110 / B0001 / G104641 / 50784  
**Agency:** National Science Foundation  
**Pass_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 4/15/2012 to 3/31/2013  
**CFDA:** 47.049 Mathematical and Physical Sciences  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Progress and Problems in Dynamics

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**Investigator:** Blecher, David P. Dr.  
**Award Amount:** $86,332.00  
**Cost Center:** 00730 / 5013 / H0110 / B0001 / G104373 / 50837  
**Agency:** National Science Foundation  
**Pass_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 6/1/2012 to 5/31/2015  
**CFDA:** 47.049 Mathematical and Physical Sciences  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Noncommutative function theory in operator algebras and operator spaces
**Physics**

Investigator: Freundlich, Alexandre Dr. 20%
Award Amount: $29,992.20
Cost Center: 00730 / 5013 / H0453 / B0001 / G102472 / 50751
Agency: Houston Area Research Council
Agency Type: FEDERAL
Duration: 1/1/2012 to 11/30/2012
CFDA: 00730 / 5013 / H0453 / B0001 / G102472 / 50751
Project Type: Renewable Energy Research and Development
Project Title: Research in Advanced Antireflective Coatings and Solar cells for Marine Environment

Investigator: Brazdeikis, Audrius Prof. 18%
Award Amount: $5,305.32
Cost Center: 00730 / 5021 / H0452 / B0001 / G105164 / 50727
Agency: The Methodist Hospital
Pass_Thru Agency: Cancer Prevention and Research Institute of Texas
Agency Type: STATE
Duration: 12/1/2011 to 11/30/2012
CFDA: 00730 / 5021 / H0452 / B0001 / G105164 / 50727
Project Type: Restricted Research
Project Title: Magnetic Characterization of the Nanosconstructs and Development of the Device for Magnetic Guiding and Localized Ablation

Investigator: Ignatiev, Alex Dr. 10%
Award Amount: $14,996.10
Cost Center: 00730 / 5013 / H0453 / B0001 / G102472 / 50751
Agency: Houston Area Research Council
Agency Type: FEDERAL
Duration: 1/1/2012 to 11/30/2012
CFDA: 00730 / 5013 / H0453 / B0001 / G102472 / 50751
Project Type: Renewable Energy Research and Development
Project Title: Research in Advanced Antireflective Coatings and Solar cells for Marine Environment
COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Physics

Investigator: Weglein, Arthur Dr. 100%
Award Amount: $49,700.00
Cost Center: 00730 / 5022 / H0112 / B0001 / G094786 / 40040
Agency: Various Private Profit Agencies
Pass_Thru Agency:
Agency Type: PROFIT
Duration: 1/1/2007 to 12/31/2014
CFDA:
CB Designation: Restricted Research
Project Type: Contract - Research
Project Title: Mission-Oriented Seismic Research Program

Investigator: Brazdeikis, Audrius Prof. 18%
Award Amount: $6,063.12
Cost Center: 00730 / 5021 / H0452 / B0001 / G105163 / 50728
Agency: The Methodist Hospital
Pass_Thru Agency: Cancer Prevention and Research Institute of Texas
Agency Type: STATE
Duration: 12/1/2011 to 11/30/2012
CFDA:
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Magnetic Characterization of the Nanosconstructs and Development of the Device for Magnetic Guiding and Localized Ablation

COLLEGE OF OPTOMETRY

Clinical Optometry - Old Dept

Investigator: Pease, Paul L. Dr. 100%
Award Amount: $6,74
Cost Center: 00730 / 5013 / H0113 / C0001 / G000015 / 14140
Agency: Division of Associated Health Professions
Pass_Thru Agency:
Agency Type: FEDERAL
Duration: 9/1/1999 to 8/31/2001
CFDA: 93.822 Health Careers Opportunity Program
CB Designation: Non Research
Project Type: Grant - Public Service
Project Title: Texas Optometry Career Opportunities Program - (TEXOCOP)
UNIVERSITY OF HOUSTON
Division of Research
New/Continuation Sponsored Research Grants and Contracts
Fiscal Year 2012 - Received during APRIL

COLLEGE OF OPTOMETRY
Optometry, Community

Investigator: McDermott, Alison Dr.  80%
Award Amount: $299,666.40
Cost Center: 00730 / 5013 / H0114 / B0001 / G104189 / 50786
Agency: National Eye Institute
Pass_Thru Agency: 
Agency Type: FEDERAL
Duration: 5/1/2012 to 4/30/2013
CFDA: 93.867 Vision Research
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: The Role Of Antimicrobial Peptides at the Ocular Surface (changed from Defensins and Corneal Wound Healing)

COLLEGE OF PHARMACY
Clinical Sciences and Administration

Investigator: Prince, Randall A. Dr.  100%
Award Amount: $581.95
Cost Center: 00730 / 5021 / H0118 / B0001 / G103958 / 49577
Agency: Henry Ford Hospital
Pass_Thru Agency: 
Agency Type: NON PROFIT
Duration: 6/20/2011 to 9/20/2012
CFDA: 
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Study of intraocular penetration of systemic antibiotics in eyes with penetrating injury

Pharmacological and Pharmaceutical Sciences

Investigator: Salim, Samina Dr.  100%
Award Amount: $443,414.00
Cost Center: 00730 / 5013 / H0117 / B0001 / G103327 / 50778
Agency: National Institute of Mental Health
Pass_Thru Agency: 
Agency Type: FEDERAL
Duration: 4/5/2012 to 3/31/2015
CFDA: 93.242 Mental Health Research Grants
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Oxidative Stress: a Recipe for Anxiety
UNIVERSITY OF HOUSTON
Division of Research
New/Continuation Sponsored Research Grants and Contracts
Fiscal Year 2012 - Received during APRIL

COLLEGE OF PHARMACY
Pharmacological and Pharmaceutical Sciences

Investigator: Cuny, Gregory 100%
Award Amount: $24,237.00
Cost Center: 00730 / 5013 / H0117 / B0001 / G105191 / 50789
Agency: Brandeis University
Pass_Thru Agency: National Institute of Allergy and Infectious Diseases
Agency Type: FEDERAL
Duration: 3/1/2012 to 5/31/2012
CFDA: 93.855 Allergy, Immunology, and Transplantation Research
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: IMPDH-targeted antibiotics for select agents

COLLEGE OF TECHNOLOGY
Abramson Center for the Future of Health

Investigator: Dasco, Clifford Dr. 100%
Award Amount: $48,974.00
Cost Center: 00730 / 5021 / H0469 / B0001 / G105144 / 50827
Agency: Methodist Hospital Research Institute
Pass_Thru Agency: Methodist Hospital Research Institute
Agency Type: NON PROFIT
Duration: 1/1/2011 to 8/31/2013
CFDA: Restricted Research
Project Type: Grant - Research
Project Title: Development of mobileWARP - A Platform for Next-Generation Wireless Networks and Mobile Applications

Center for Technology Literacy

Investigator: Cline, Raymond Dr. 100%
Award Amount: $111,690.00
Cost Center: 00730 / 5014 / H0423 / C0001 / G104997 / 50630
Agency: Texas Workforce Commission
Pass_Thru Agency: U.S. Department of Labor
Agency Type: FEDERAL
Duration: 3/15/2012 to 9/30/2012
CFDA: 17.268 H-1B Job Training Grants
CB Designation: Non Research
Project Type: Grant - Public Service
Project Title: Science and Technology in Extreme Environments
COLLEGE OF TECHNOLOGY

Investigator: Gao, Lu 100%
Award Amount: $21,144.00
Cost Center: 00730 / 5016 / H0136 / B0001 / G105146 / 50746
Agency: Texas Department of Transportation
Pass_Thru Agency: STATE
Agency Type: STATE
Duration: 3/27/2012 to 9/30/2012
CFDA: 00730 / 5016 / H0136 / B0001 / G105146 / 50746
CB Designation: Restricted Research
Project Type: Contract - Research
Project Title: Manage the Transportation System

Engineering Technology

Investigator: Song, Lingguang Dr. 100%
Award Amount: $44,810.00
Cost Center: 00730 / 5021 / H0139 / B0001 / G105066 / 50833
Agency: Electri International
Pass_Thru Agency: FOUNDATION
Agency Type: FOUNDATION
Duration: 7/15/2012 to 6/30/2013
CFDA: 00730 / 5021 / H0139 / B0001 / G105066 / 50833
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Effective Look-ahead Scheduling for Electrical Contractors

Investigator: Bose, Anima Dr. 100%
Award Amount: $2,044.31
Cost Center: 00730 / 5013 / H0139 / B0001 / G104737 / 50112
Agency: Ohio University - All Campuses
Agency Type: FEDERAL
Duration: 9/1/2011 to 8/31/2012
CFDA: 81.087 Renewable Energy Research and Development
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Multi-Hybrid Power Vehicles with Cost Effective and Durable Polymer Electrolyte Membrane Fuel Cell and Li-Ion Battery
CULLEN COLLEGE OF ENGINEERING

Biomedical Engineering

Investigator: Birla, Ravi Mr. 100%
Award Amount: $476,684.00
Cost Center: 00730 / 5013 / H0071 / B0001 / G105069 / 50828
Agency: National Institute of Biomedical Imaging and Bioengineering
Pass_Thru Agency:
Agency Type: FEDERAL
Duration: 12/1/2011 to 3/31/2014
CFDA: 93.286 Biomedical Imaging Research
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Fabrication of 3D Cardiac Patches for Myocardial Recovery

Investigator: Gifford, Howard 100%
Award Amount: $186,875.00
Cost Center: 00730 / 5013 / H0071 / B0001 / G104982 / 50380
Agency: National Institute of Biomedical Imaging and Bioengineering
Pass_Thru Agency:
Agency Type: FEDERAL
Duration: 11/1/2011 to 2/28/2013
CFDA: 93.286 Biomedical Imaging Research
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Feasibility of Multipinhole SPECT for Prostate Imaging

Center for Innovative Grouting Materials and Tech

Investigator: Vipulanandan, Cumaraswamy Dr. 100%
Award Amount: $6,000.00
Cost Center: 00730 / 5022 / H0069 / B0100 / G097310 / 42739
Agency: Various Private Profit Agencies
Pass_Thru Agency:
Agency Type: PROFIT
Duration: 1/1/2008 to 8/31/2031
CFDA: CB Designation: Non Restricted Research
Project Type: Grant - Research
Project Title: Center for Innovative Grouting Materials and Technology
CULLEN COLLEGE OF ENGINEERING

Center for Integrated Bio and Nano Systems

**Investigator:** Brankovic, Stanko Dr. 30%
**Award Amount:** $32,203.50
**Cost Center:** 00730 / 5013 / H0070 / B0001 / G099623 / 46651
**Agency:** National Science Foundation

**Pass_Thru Agency:**
**Agency Type:** FEDERAL
**Duration:** 6/15/2010 to 5/31/2015
**CFDA:** 47.049 Mathematical and Physical Sciences

**CB Designation:** Restricted Research
**Project Type:** Grant - Research
**Project Title:** CAREER: Electrochemical Nanofabrication - Transformative Concept Towards Synthesis of Novel Materials, Functional Surfaces and Metallic Nanostructures

Chemical Engineering

**Investigator:** Luss, Dan Dr. 30%
**Award Amount:** $34,146.30
**Cost Center:** 00730 / 5013 / H0067 / B0001 / G098356 / 45303
**Agency:** U.S. Department of Energy - National Energy Technology Laboratory

**Pass_Thru Agency:**
**Agency Type:** FEDERAL
**Duration:** 9/21/2009 to 9/20/2012
**CFDA:** 81.117 Energy Efficiency and Renewable Energy Information Dissemination, Outreach, Training and Technical Assistance

**CB Designation:** Restricted Research
**Project Type:** Grant - Research
**Project Title:** Development of Optimal Catalyst Designs and Operating Strategies for Lean NOx Reduction in Coupled LNT-SCR Systems

**Investigator:** Krishnamoorti, Ramanan Dr. 100%
**Award Amount:** $74,000.00
**Cost Center:** 00730 / 5021 / H0067 / B0001 / G103903 / 50024
**Agency:** Tulane University

**Pass_Thru Agency:** Consortium for Ocean Leadership (COL)
**Agency Type:** PROFIT
**Duration:** 10/1/2011 to 9/30/2012
**CFDA:**

**CB Designation:** Restricted Research
**Project Type:** Grant - Research
**Project Title:** The Science and Technology of Dispersants as Relevant to Deep-Sea Hydrocarbon Releases
### Cullen College of Engineering

**Chemical Engineering**

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**Investigator:** Rimer, Jeffrey Dr.  
**Award Amount:** $6,000.00  
**Cost Center:** 00730 / 5022 / H0067 / B0001 / G103631 / 48797  
**Agency:** Total  
**Pass_Thru Agency:**  
**Agency Type:** PROFIT  
**Duration:** 4/1/2011 to 7/31/2013  
**Project Type:** Contract - Research  
**Project Title:** Preparation and Study of Nano-Zeolite Supported Materials - Project 2011

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**Investigator:** Balakotaiah, Vemuri Dr.  
**Award Amount:** $34,146.30  
**Cost Center:** 00730 / 5013 / H0067 / B0001 / G098356 / 45303  
**Agency:** U.S. Department of Energy - National Energy Technology Laboratory  
**Pass_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/21/2009 to 9/20/2012  
**Project Type:** Grant - Research  
**Project Title:** Development of Optimal Catalyst Designs and Operating Strategies for Lean NOx Reduction in Coupled LNT-SCR Systems

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**Investigator:** Balakotaiah, Vemuri Dr.  
**Award Amount:** $100,000.00  
**Cost Center:** 00730 / 5013 / H0067 / B0001 / G101473 / 46776  
**Agency:** NASA - National Aeronautics and Space Administration - Glenn Research Center  
**Pass_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 4/12/2010 to 10/11/2013  
**Project Type:** Grant - Research  
**Project Title:** Packed Bed Reactor Experiment
UNIVERSITY OF HOUSTON
Division of Research
New/Continuation Sponsored Research Grants and Contracts
Fiscal Year 2012 - Received during APRIL

CULLEN COLLEGE OF ENGINEERING

Chemical Engineering

Investigator: Harold, Michael Dr. 40%
Award Amount: $45,528.40
Cost Center: 00730 / 5013 / H0067 / B0001 / G098356 / 45303
Agency: U.S. Department of Energy - National Energy Technology Laboratory
Pass_Thru Agency:
Agency Type: FEDERAL
Duration: 9/21/2009 to 9/20/2012
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Development of Optimal Catalyst Designs and Operating Strategies for Lean NOx Reduction in Coupled LNT-SCR Systems

Investigator: Harold, Michael Dr. 100%
Award Amount: $80,000.00
Cost Center: 00730 / 5022 / H0067 / B0001 / G105141 / 50742
Agency: Total
Pass_Thru Agency:
Agency Type: PROFIT
Duration: 4/1/2012 to 3/31/2013
CFDA:
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Applications of Membranes for Hydrocarbon Conversion Processes

Investigator: Willson, Richard C. Dr. 100%
Award Amount: $39,725.00
Cost Center: 00730 / 5015 / H0067 / B0001 / G105051 / 50406
Agency: University of Texas Medical Branch at Galveston
Pass_Thru Agency: National Institute of Allergy and Infectious Diseases
Agency Type: FEDERAL
Duration: 3/1/2012 to 2/28/2013
CFDA: 93.855 Allergy, Immunology, and Transplantation Research
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: WRCE Diagnostics Development Core - Yr 4 of 5 Yr. Award
CULLEN COLLEGE OF ENGINEERING

Chemical Engineering

Investigator: Harold, Michael Dr.  50%
Award Amount: $10,000.00
Cost Center: 00730 / 5022 / H0067 / B0001 / G104577 / 50559
Agency: Texas EnTech
Pass_Thru Agency: PROFIT
Agency Type: Duration: 12/1/2011 to 11/30/2012
CFDA:
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Catalyst Benchmark and Evaluation Study

Investigator: Muncrif, Rachel Dr.  50%
Award Amount: $10,000.00
Cost Center: 00730 / 5022 / H0067 / B0001 / G104577 / 50559
Agency: Texas EnTech
Pass_Thru Agency: PROFIT
Agency Type: Duration: 12/1/2011 to 11/30/2012
CFDA:
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Catalyst Benchmark and Evaluation Study

Civil Engineering

Investigator: Carter, William Dr.  30%
Award Amount: $13,455.90
Cost Center: 00730 / 5013 / H0068 / B0001 / G101750 / 46656
Agency: National Science Foundation
Pass_Thru Agency: FEDERAL
Agency Type: Duration: 4/1/2010 to 7/31/2013
CFDA: 47.050 Geosciences
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Transfer of the NCALM Facilities, Its Resources and the Funds from University of Florida to University of Houston
CULLEN COLLEGE OF ENGINEERING

Civil Engineering

Investigator: Glennie, Craig Dr. 10%
Award Amount: $4,485.30
Cost Center: 00730 / 5013 / H0068 / B0001 / G101750 / 46656
Agency: National Science Foundation
Pass_Thru Agency: FEDERAL
Agency Type: Geosciences
Duration: 4/1/2010 to 7/31/2013
CFDA: 47.050
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Transfer of the NCALM Facilities, Its Resources and the Funds from University of Florida to University of Houston

Investigator: Rifai, Hanadi Dr. 100%
Award Amount: $80,000.00
Cost Center: 00730 / 5014 / H0068 / B0001 / G104018 / 49547
Agency: Texas Commission on Environmental Quality
Pass_Thru Agency: FEDERAL
Agency Type: Water Pollution Control - State and Interstate Program Support
Duration: 8/4/2011 to 8/31/2012
CFDA: 66.419
CB Designation: Restricted Research
Project Type: Co-Op Agreement - Research
Project Title: Total Maximum Daily Loads (TMDLs) for Polychlorinated Biphenyls (PCBs) in the Houston Ship Channel (HSC) System and Upper Galveston Bay

Investigator: Willam, Kaspar Dr. 33%
Award Amount: $3,960.00
Cost Center: 00730 / 5013 / H0068 / B0001 / G104899 / 50475
Agency: National Science Foundation
Pass_Thru Agency: FEDERAL
Agency Type: Engineering Grants
Duration: 2/29/2012 to 3/31/2014
CFDA: 47.041
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: REU Supplement: Self-stressing SMA/FRP Composite Patches for Rehabilitation of Cracked Steel Structures
CULLEN COLLEGE OF ENGINEERING

Civil Engineering

Investigator: Shrestha, Ramesh Dr. 70%
Award Amount: $106,685.60
Cost Center: 00730 / 5013 / H0068 / B0001 / G104884 / 50854
Agency: U.S. Geological Survey
Pass_Thru Agency:
Agency Type: FEDERAL
Duration: 4/18/2012 to 9/30/2013
CFDA: 15.808 U.S. Geological Survey - Research and Data Acquisition
CB Designation: Restricted Research
Project Type: Co-Op Agreement - Research
Project Title: Cooperative Agreement with the National Center for Airborne Laser Mapping (NCALM), University of Houston -- Airborne lidar survey of Surprise Valley and surrounding areas, CA-NV

Investigator: Carter, William Dr. 20%
Award Amount: $30,481.60
Cost Center: 00730 / 5013 / H0068 / B0001 / G104884 / 50854
Agency: U.S. Geological Survey
Pass_Thru Agency:
Agency Type: FEDERAL
Duration: 4/18/2012 to 9/30/2013
CFDA: 15.808 U.S. Geological Survey - Research and Data Acquisition
CB Designation: Restricted Research
Project Type: Co-Op Agreement - Research
Project Title: Cooperative Agreement with the National Center for Airborne Laser Mapping (NCALM), University of Houston -- Airborne lidar survey of Surprise Valley and surrounding areas, CA-NV

Investigator: Glennie, Craig Dr. 10%
Award Amount: $15,240.80
Cost Center: 00730 / 5013 / H0068 / B0001 / G104884 / 50854
Agency: U.S. Geological Survey
Pass_Thru Agency:
Agency Type: FEDERAL
Duration: 4/18/2012 to 9/30/2013
CFDA: 15.808 U.S. Geological Survey - Research and Data Acquisition
CB Designation: Restricted Research
Project Type: Co-Op Agreement - Research
Project Title: Cooperative Agreement with the National Center for Airborne Laser Mapping (NCALM), University of Houston -- Airborne lidar survey of Surprise Valley and surrounding areas, CA-NV
CULLEN COLLEGE OF ENGINEERING

Civil Engineering

Investigator: Dawood, Mina Dr.  34%
Award Amount: $4,080.00
Cost Center: 00730 / 5013 / H0068 / B0001 / G104899 / 50475
Agency: National Science Foundation
Pass_Thru Agency:
Agency Type: FEDERAL
Duration: 2/29/2012 to 3/31/2014
CFDA: 47.041 Engineering Grants
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: REU Supplement: Self-stressing SMA/FRP Composite Patches for Rehabilitation of Cracked Steel Structures

Investigator: Chellam, Shankar Dr.  100%
Award Amount: $22,500.00
Cost Center: 00730 / 5022 / H0068 / B0001 / G104392 / 50867
Agency: ConocoPhillips
Pass_Thru Agency:
Agency Type: PROFIT
Duration: 3/27/2012 to 3/26/2013
CFDA:
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Produced Water Evaporator Blowdown Treatability Study: Neutralization and Solid/Liquid Separation

Investigator: Shrestha, Ramesh Dr.  60%
Award Amount: $26,911.80
Cost Center: 00730 / 5013 / H0068 / B0001 / G101750 / 46656
Agency: National Science Foundation
Pass_Thru Agency:
Agency Type: FEDERAL
Duration: 4/1/2010 to 7/31/2013
CFDA: 47.050 Geosciences
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Transfer of the NCALM Facilities, Its Resources and the Funds from University of Florida to University of Houston
<table>
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<th>Investigator</th>
<th>Award Amount</th>
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<td>Cancer Prevention and Research Institute of Texas</td>
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<td>00730 / 5021 / H0452 / B0001 / G105163 / 50728</td>
<td>Restricted Research</td>
<td>Magnetic Characterization of the Nanosconstructs and Development of the Device for Magnetic Guiding and Localized Ablation</td>
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CULLEN COLLEGE OF ENGINEERING

Electrical & Computer Engineering

Investigator: Han, Zhu Dr. 100%
Award Amount: $6,000.00
Cost Center: 00730 / 5013 / H0070 / B0001 / G105133 / 50840
Agency: National Science Foundation
Pass_Thru Agency: FEDERAL
Agency Type: Engineering Grants
Duration: 4/11/2012 to 8/31/2013
CFDA: 47.041
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: REU Supplemental Funding for "IHCS: Collaborative Research: Compressive Spectrum Sensing in Cognitive Radio Networks"

Investigator: Chen, Ji Dr. 100%
Award Amount: $8,000.00
Cost Center: 00730 / 5013 / H0070 / B0001 / G105084 / 50613
Agency: National Science Foundation
Pass_Thru Agency: FEDERAL
Agency Type: Engineering Grants
Duration: 3/17/2012 to 1/31/2014
CFDA: 47.041
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: REU Supplement: Center for Electromagnetic Compatability Research

Investigator: Prasad, Saurabh Dr. 100%
Award Amount: $65,000.00
Cost Center: 00730 / 5013 / H0070 / B0001 / G105056 / 50788
Agency: Mississippi State University
Pass_Thru Agency: National Geospatial-Intelligence Agency
Agency Type: FEDERAL
Duration: 1/16/2012 to 5/1/2012
CFDA: 12.630
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Information Fusion in the Redundant Wavelet Transform Domain for Robust Hyperspectral ATR
CULLEN COLLEGE OF ENGINEERING

Electrical & Computer Engineering

Investigator: Liu, Ce Dr. 100%
Award Amount: $25,000.00
Cost Center: 00730 / 5022 / H0070 / B0001 / G096869 / 42176
Agency: Various Private Profit Agencies
Pass_Thru Agency: 
Agency Type: PROFIT
Duration: 9/1/2007 to 8/31/2012
CFDA: 
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Well Logging Consortium

Investigator: Contreras-Vidal, Jose Dr. 100%
Award Amount: $64,437.00
Cost Center: 00730 / 5013 / H0070 / B0001 / G104881 / 50628
Agency: University of Maryland College Park
Pass_Thru Agency: National Institutes of Health
Agency Type: FEDERAL
Duration: 1/1/2012 to 6/30/2012
CFDA: 93.865 Center for Research for Mothers and Children
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Functions and Development of the Mirror Neuron System: Project IV and Core B

Investigator: Chen, Ji Dr. 100%
Award Amount: $10,000.00
Cost Center: 00730 / 5022 / H0070 / B0001 / G096630 / 42373
Agency: St. Jude Medical Cardiac Rhythm Management
Pass_Thru Agency: 
Agency Type: PROFIT
Duration: 1/1/2008 to 6/30/2012
CFDA: 
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: NUMERICAL MODELING STUDY
### Electrical & Computer Engineering

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### Cullen College of Engineering

**Mechanical Engineering**

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### Division of Research

**Biology of Behavior Institute**

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**Biology of Behavior Institute**

Investigator: Wiernasz, Diane Dr.  
Award Amount: $22,461.50  
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Agency: National Science Foundation  
Pass_Thru Agency:  
Agency Type: FEDERAL  
Duration: 5/1/2012 to 4/30/2013  
CFDA: 47.074 Biological Sciences  
CB Designation: Restricted Research  
Project Type: Grant - Research  
Project Title: LTREB: Sources of variation in lifetime fitness of harvester ants.

---

**Center for Advanced Materials**

Investigator: Ignatiev, Alex Dr.  
Award Amount: $14,996.10  
Cost Center: 00730 / 5013 / H0453 / B0001 / G102472 / 50751  
Agency: Houston Area Research Council  
Agency Type: FEDERAL  
Duration: 1/1/2012 to 11/30/2012  
CFDA: 81.087 Renewable Energy Research and Development  
CB Designation: Restricted Research  
Project Type: Grant - Research  
Project Title: Research in Advanced Antireflective Coatings and Solar cells for Marine Environment

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Investigator: Freundlich, Alexandre Dr.  
Award Amount: $89,976.60  
Cost Center: 00730 / 5013 / H0453 / B0001 / G102472 / 50751  
Agency: Houston Area Research Council  
Agency Type: FEDERAL  
Duration: 1/1/2012 to 11/30/2012  
CFDA: 81.087 Renewable Energy Research and Development  
CB Designation: Restricted Research  
Project Type: Grant - Research  
Project Title: Research in Advanced Antireflective Coatings and Solar cells for Marine Environment
UNIVERSITY OF HOUSTON
Division of Research
New/ Continuation Sponsored Research Grants and Contracts
Fiscal Year 2012 - Received during APRIL

DIVISION OF RESEARCH

Center for Biomedical & Environmental Genomics
Investigator: Fox, George E. Dr. 10%
Award Amount: $9,000.00
Cost Center: 00730 / 5013 / H0104 / B0001 / G101662 / 47058
Agency: Georgia Institute of Technology
Agency Type: FEDERAL
Duration: 5/1/2010 to 1/31/2014
CFDA: 43.000  National Aeronautics and Space Administration
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Evolutionary history of the cellular translation machinery

Investigator: Chapman, Barbara M. Dr. 50%
Award Amount: $70,887.00
Cost Center: 00730 / 5043 / H0546 / B0001 / G101840 / 47011
Agency: UT-Battelle, LLC
Agency Type: FEDERAL
Duration: 7/28/2010 to 9/30/2012
CFDA: 47.040  Computer and Information Science and Engineering
CB Designation: Restricted Research
Project Type: Contract - Research
Project Title: Preparation of the OpenSHMEM API for the HPC community and Chapel Environment Maturation

Institute for Space Systems Operations
Investigator: Fox, George E. Dr. 10%
Award Amount: $9,000.00
Cost Center: 00730 / 5013 / H0104 / B0001 / G101662 / 47058
Agency: Georgia Institute of Technology
Agency Type: FEDERAL
Duration: 5/1/2010 to 1/31/2014
CFDA: 43.000  National Aeronautics and Space Administration
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Evolutionary history of the cellular translation machinery
### Investigator:
- Rymer, Beverly Ms.
- Wosik, Jarek Dr.
- Brazdeikis, Audrius Prof.

### Award Amount:
- $157,246.00
- $8,842.20
- $12,379.08

### Cost Center:
- 00730 / 5022 / H0107 / B0001 / G003290 / 15332
- 00730 / 5021 / H0452 / B0001 / G105164 / 50727
- 00730 / 5021 / H0452 / B0001 / G105164 / 50727

### Agency:
- The Welch Foundation
- The Methodist Hospital
- The Methodist Hospital

### Pass_Thru Agency:
- Cancer Prevention and Research Institute of Texas
- Cancer Prevention and Research Institute of Texas

### Agency Type:
- FOUNDATION
- STATE
- STATE

### Duration:
- 9/1/1989 to 5/31/2012
- 12/1/2011 to 11/30/2012
- 12/1/2011 to 11/30/2012

### CB Designation:
- Restricted Research
- Restricted Research
- Restricted Research

### Project Type:
- Grant - Research
- Grant - Research
- Grant - Research

### Project Title:
- Welch Chair in Science Control Account
- Magnetic Characterization of the Nanosconstructs and Development of the Device for Magnetic Guiding and Localized Ablation
- Magnetic Characterization of the Nanosconstructs and Development of the Device for Magnetic Guiding and Localized Ablation
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DIVISION OF RESEARCH

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GRADUATE COLLEGE OF SOCIAL WORK

Center for Health Equities & Evaluation Research

Investigator: Jones, Lovell Dr. 100%
Award Amount: $35,000.00
Cost Center: 00730 / 5021 / H0662 / B0001 / G105211 / 50814
Agency: Baylor College of Medicine
Pass_Thru Agency: 
Agency Type: 
Duration: 4/1/2012 to 8/1/2012
CFDA: 
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Regional Meeting on the Minority and Medically Underserved and Cancer

Investigator: Jones, Lovell Dr. 100%
Award Amount: $52,873.00
Cost Center: 00730 / 5013 / H0662 / B0001 / G105168 / 50730
Agency: National Institutes of Health
Pass_Thru Agency: 
Agency Type: FEDERAL
Duration: 3/12/2012 to 8/31/2012
CFDA: 93.393 Cancer Cause and Prevention Research
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Regional Symposia on Minorities, The Medically Underserved & Cancer
Vice President, Student Affairs

<table>
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<tr>
<th>Investigator</th>
<th>Howard, Sherry Ms.</th>
<th>100%</th>
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<td>Award Amount</td>
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<td>Project Title</td>
<td>Child Care Access Means Parents in School</td>
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REPORTING PERIOD ACTIVITY SUMMARY

| Federal Funding       | $4,763,559.05           |
| State Funding         | $241,567.00             |
| Local Funding         | $0.00                   |
| Profit Funding        | $544,735.00             |
| Non Profit Funding    | $49,555.95              |
| Foundation Funding    | $500,815.46             |
| University Funding    | $35,000.00              |
| Total                 | $6,135,232.46           |