UNIVERSITY OF HOUSTON
Division of Research
New/Continuation Sponsored Research Grants and Contracts
Fiscal Year 2014 - Received during MARCH

C.T. BAUER COLLEGE OF BUSINESS

Small Business Development Center

Investigator: Young, Frederick Dr. 100%
Award Amount: $657,590.00
Cost Center: 00730 / 5013 / H0053 / C0001 / G107264 / 54175
Agency: U.S. Small Business Administration
Pass_Thru Agency: FEDERAL
Agency Type: FEDERAL
Duration: 10/17/2013 to 9/30/2014
CFDA: 59.037 Small Business Development Center

COLLEGE OF EDUCATION

Educational Psychology

Investigator: Obasi, Ezemenari Dr. 100%
Award Amount: $56,931.00
Cost Center: 00730 / 5013 / H0064 / B0001 / G106020 / 52816
Agency: National Institute on Drug Abuse
Pass_Thru Agency: FEDERAL
Agency Type: FEDERAL
Duration: 4/1/2013 to 12/31/2014
CFDA: 93.279 Drug Abuse Research Programs

COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES

African-American Studies

Investigator: Conyers, James Dr. 100%
Award Amount: $1,500.00
Cost Center: 00730 / 5013 / H0094 / B0100 / C107401 / 54763
Agency: Humanities Texas
Pass_Thru Agency: National Endowment for the Humanities
Agency Type: FEDERAL
Duration: 9/1/2013 to 12/31/2013
CFDA: 45.129 Promotion of the Humanities - Federal/State Partnership
CB Designation: Non Restricted Research
Project Type: Grant - Research
Project Title: A Shared Authority: African American Oral History in Houston, Texas
Arte Publico Press

Investigator: Kanellos, Nicolas Dr. 100%
Award Amount: $70,074.00
Cost Center: 00730 / 5021 / H0093 / C0001 / C108024 / 54698
Agency: The Houston Arts Alliance
Pass_Thru Agency: NON PROFIT
Duration: 7/1/2013 to 6/30/2014
CFDA: 00730 / 5021 / H0093 / C0001 / C108024 / 54698
CB Designation: Non Research
Project Type: Grant - Public Service
Project Title: HAA 2014- GOSE - FY-142899

Health and Human Performance

Investigator: Layne, Charles S. Dr. 100%
Award Amount: $12,400.00
Cost Center: 00730 / 5043 / H0065 / B0001 / G105746 / 51650
Agency: WYLE Laboratories
Pass_Thru Agency: NASA - National Aeronautics and Space Administration - Johnson Space Center
Duration: 9/1/2012 to 6/30/2014
CFDA: 43.001 Aerospace Education Services Program
CB Designation: Restricted Research
Project Type: Contract - Research
Project Title: Enhanced Development of the Office of Scientific Data Review and Dissemination - Stephanie Bassett

Investigator: Layne, Charles S. Dr. 100%
Award Amount: $17,459.00
Cost Center: 00730 / 5043 / H0065 / B0001 / G105759 / 51663
Agency: WYLE Laboratories
Pass_Thru Agency: NASA - National Aeronautics and Space Administration - Johnson Space Center
Duration: 9/1/2012 to 6/30/2014
CFDA: 43.001 Aerospace Education Services Program
CB Designation: Restricted Research
Project Type: Contract - Research
Project Title: Enhanced Development of the Office of Scientific Data Review and Dissemination - Mitzi Laughlin
COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES

Health and Human Performance

Investigator: Layne, Charles S. Dr. 100%
Award Amount: $18,000.00
Cost Center: 00730 / 5043 / H0065 / B0001 / G105754 / 51657
Agency: WYLE Laboratories
Pass_Thru Agency: NASA - National Aeronautics and Space Administration - Johnson Space Center
Agency Type: FEDERAL
Duration: 9/1/2012 to 6/30/2014
CFDA: 43.001 Aerospace Education Services Program
CB Designation: Restricted Research
Project Type: Contract - Research
Project Title: Enhanced Development of the Office of Scientific Data Review and Dissemination - Holly Patterson

Investigator: Layne, Charles S. Dr. 100%
Award Amount: $10,000.00
Cost Center: 00730 / 5013 / H0065 / B0001 / G105384 / 52168
Agency: NASA - National Aeronautics and Space Administration - Johnson Space Center
Pass_Thru Agency: NASA - National Aeronautics and Space Administration - Johnson Space Center
Agency Type: FEDERAL
Duration: 7/31/2012 to 7/30/2015
CFDA: 43.003 Basic Research, Educational Outreach, or Training in the area of Exploration
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: University of Houston SLS Graduate Research Stipend (ST-II)

Hobby Center for Public Policy

Investigator: Granato, Jim Dr. 100%
Award Amount: $6,000.00
Cost Center: 00730 / 5021 / H0128 / C0001 / C107497 / 54719
Agency: Charles G. Koch Charitable Foundation
Pass_Thru Agency: Charles G. Koch Charitable Foundation
Agency Type: FOUNDATION
Duration: 1/1/2014 to 12/31/2014
CFDA: CB Designation: Non Research
Project Type: Grant - Public Service
Project Title: Civitas Project
COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES

Hobby Center for Public Policy

- Investigator: Granato, Jim Dr. 100%
- Award Amount: $19,298.00
- Cost Center: 00730 / 5016 / H0128 / B0100 / G107298 / 54708
- Agency: Rice University
- Pass_Thru Agency: Texas Department of Agriculture
- Agency Type: STATE
- Duration: 8/1/2013 to 12/31/2013
- CFDA: 00730 / 5016 / H0128 / B0100 / G107298 / 54708
- CB Designation: Non Restricted Research
- Project Type: Contract - Research
- Project Title: Understanding the Workforce Needs and Challenges of Rural and Agricultural Employers in Texas

Psychology

- Investigator: McIntyre, Maria Teresa Dr. 50%
- Award Amount: $200,000.00
- Cost Center: 00730 / 5013 / H0288 / B0001 / G101970 / 48264
- Agency: Institute of Educational Sciences
- Pass_Thru Agency: National Institute on Student Achievement, Curriculum and Assessment
- Agency Type: FEDERAL
- Duration: 3/1/2011 to 2/28/2015
- CFDA: 84.305
- CB Designation: Restricted Research
- Project Type: Grant - Research
- Project Title: Using longitudinal and momentary analysis to study the impact of middle school teachers’ stress on teacher effectiveness, student behavior and achievement

- Investigator: Mariotto, Marco J. Dr. 100%
- Award Amount: $23,691.00
- Cost Center: 00730 / 5021 / H0125 / B0001 / G107837 / 54564
- Agency: Baylor College of Medicine
- Pass_Thru Agency: Case Western Reserve University
- Agency Type: UNIVERSITY
- Duration: 1/1/2014 to 12/31/2014
- CFDA: 00730 / 5021 / H0125 / B0001 / G107837 / 54564
- CB Designation: Restricted Research
- Project Type: Grant - Research
- Project Title: Exploring Religious And Spiritual Struggle In Veterans And Its Relationship with Health Outcomes (Tannah Little)
COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES

Psychology

Investigator: Barr, Christopher Dr.  
Award Amount: $18,812.40

Cost Center: 00730 / 5013 / H0288 / B0001 / G103892 / S1005

Agency: Lehigh University

Pass_Thru Agency: U.S. Department of Education

Agency Type: FEDERAL

Duration: 3/1/2012 to 2/28/2015

CFDA: 84.324  Special Education Research

Project Type: Grant - Research

Project Title: Reading Achievement Multi-Component Program (RAMP-UP)

Theatre

Investigator: Wallace, Steven Dr.  
Award Amount: $90,000.00

Cost Center: 00730 / 5021 / H0085 / C0001 / C105822 / S4722

Agency: Miller Theatre Advisory Board, Inc

Pass_Thru Agency: Miller Theatre Advisory Board, Inc

Agency Type: NON PROFIT

Duration: 6/1/2013 to 8/31/2013

CFDA: 54.722

Project Type: Grant - Public Service

Project Title: Houston Shakespeare Festival 2013

COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Earth & Atmospheric Sciences

Investigator: Brandon, Alan Dr.  
Award Amount: $50,000.00

Cost Center: 00730 / 5013 / H0109 / B0001 / G101620 / S0430

Agency: NASA - National Aeronautics and Space Administration - Headquarters (Wash., D.C.)


Agency Type: FEDERAL

Duration: 1/4/2012 to 1/3/2015

CFDA: 43.001  Aerospace Education Services Program

Project Type: Grant - Research

Project Title: Isotopic Investigations of Planetary and Solar System Materials
<table>
<thead>
<tr>
<th>College of Natural Sciences and Mathematics</th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Earth &amp; Atmospheric Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Investigator: Choi, Yunsoo Dr.</td>
<td>50%</td>
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<tr>
<td>Award Amount: $14,621.00</td>
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<tr>
<td>Cost Center: 00730 / 5043 / H0429 / B0001 / C107989 / 54721</td>
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<tr>
<td>Agency: Sandia National Laboratories</td>
<td></td>
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<tr>
<td>Agency Type: FEDERAL</td>
<td></td>
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<tr>
<td>Duration: 1/7/2014 to 12/31/2014</td>
<td></td>
</tr>
<tr>
<td>CFDA: 00.000 Not Elsewhere Classified</td>
<td></td>
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<tr>
<td>CB Designation: Restricted Research</td>
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<tr>
<td>Project Type: Contract - Research</td>
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<tr>
<td>Project Title: Preparation of CMAQ input data for the North California Domain</td>
<td></td>
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</tbody>
</table>

| Institute for Climate and Atmospheric Science |  |
| Investigator: Choi, Yunsoo Dr.             | 50%|
| Award Amount: $14,621.00                    |  |
| Cost Center: 00730 / 5043 / H0429 / B0001 / C107989 / 54721 |  |
| Agency: Sandia National Laboratories       |  |
| Agency Type: FEDERAL                       |  |
| Duration: 1/7/2014 to 12/31/2014           |  |
| CFDA: 00.000 Not Elsewhere Classified      |  |
| CB Designation: Restricted Research        |  |
| Project Type: Contract - Research          |  |
| Project Title: Preparation of CMAQ input data for the North California Domain |  |

| Mathematics |  |
| Investigator: Kuznetsov, Yuri Dr.           | 100%|
| Award Amount: $33,000.00                    |  |
| Cost Center: 00730 / 5043 / H0110 / B0001 / C107882 / 54839 |  |
| Agency: Los Alamos National Laboratories    |  |
| Pass_Thru Agency: Los Alamos National Laboratories |  |
| Agency Type: FEDERAL                       |  |
| Duration: 3/4/2014 to 12/31/2014           |  |
| CFDA: 81.000 Department of Energy           |  |
| CB Designation: Restricted Research        |  |
| Project Type: Contract - Research          |  |
| Project Title: Investigate Homogenization Algorithms for Mimetic Discretizations |  |
COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Physics

Investigator: Curran, Seamus Dr. 50%
Award Amount: $57,500.00
Cost Center: 00730 / 5021 / H0112 / B0001 / C108127 / 54752
Agency: C-Bond Systems, LLC
Pass Thru Agency: NON PROFIT
Agency Type: CFDA:
Duration: 2/18/2014 to 8/18/2014
Project Title: Ballistic spray-on protection nano-coating for Glass

COLLEGE OF TECHNOLOGY

Engineering Technology

Investigator: Gurkan, Deniz Dr. 100%
Award Amount: $75,000.00
Cost Center: 00730 / 5022 / H0139 / B0001 / G103733 / 48895
Agency: InfoBlox Inc.
Pass Thru Agency: PROFIT
Agency Type: CFDA:
Duration: 6/21/2011 to 1/15/2015
Project Type: Restricted Research
Project Title: Metadata Application of IF-MAP across GENI Infrastructures ¿ A Use Case for Instrumentation and Measurement Resource Characterization, Access, and Control

Human Development and Consumer Science

Investigator: Hines, Andrew Dr. 100%
Award Amount: $153,000.00
Cost Center: 00730 / 5021 / H0140 / B0100 / C107983 / 54627
Agency: Lumina Foundation
Pass Thru Agency: FOUNDATION
Agency Type: CFDA:
Duration: 10/9/2013 to 5/31/2014
Project Type: Non Restricted Research
Project Title: Lumina Project
## COLLEGE OF TECHNOLOGY

**Texas Manufacturing Assistance Center**

- **Investigator:** Cline, Raymond Dr.  
- **Award Amount:** $242,937.00  
- **Cost Center:** 00730 / 5015 / H0281 / C0001 / G107475 / 54407  
- **Agency:** University of Texas at Arlington  
- **Pass_Thru Agency:** U.S. Department of Commerce  
- **Agency Type:** FEDERAL  
- **Duration:** 9/1/2013 to 8/31/2014  
- **CFDA:** 11.611 Manufacturing Extension Partnership  
- **CB Designation:** Non Research  
- **Project Type:** Grant - Public Service  
- **Project Title:** Texas Manufacturing Assistance Center GY19

## CULLEN COLLEGE OF ENGINEERING

**Chemical Engineering**

- **Investigator:** Cirino, Patrick Dr.  
- **Award Amount:** $30,183.00  
- **Cost Center:** 00730 / 5043 / H0067 / B0001 / G107828 / 54783  
- **Agency:** University of California - Lawrence Berkeley Laboratory  
- **Pass_Thru Agency:** U.S. Department of Energy  
- **Agency Type:** FEDERAL  
- **Duration:** 2/1/2014 to 9/30/2014  
- **CFDA:** 81.000 Department of Energy  
- **CB Designation:** Restricted Research  
- **Project Type:** Contract - Research  
- **Project Title:** Development of Biosensors for High-Throughput Functional Screening of Biosynthetic Pathways

## Civil Engineering

- **Investigator:** Chellam, Shankar Dr.  
- **Award Amount:** $145,007.00  
- **Cost Center:** 00730 / 5016 / H0068 / B0001 / G107338 / 54787  
- **Agency:** Texas Commission on Environmental Quality  
- **Pass_Thru Agency:** STATE  
- **Agency Type:** STATE  
- **Duration:** 2/21/2014 to 5/11/2015  
- **CFDA:**  
- **CB Designation:** Restricted Research  
- **Project Type:** Grant - Research  
- **Project Title:** Identifying and Quantifying the Episodic Impact of Saharan Dust on PM2.5 Concentrations in Houston
Civil Engineering

Investigator: Rifai, Hanadi Dr. 100%
Award Amount: $45,300.00
Cost Center: 00730 / 5014 / H0068 / B0001 / G107914 / 54765
Agency: Texas Commission on Environmental Quality
Pass_Thru Agency: U.S. Environmental Protection Agency
Agency Type: FEDERAL
Duration: 1/16/2014 to 8/31/2014
CFDA: 66.419 Water Pollution Control - State and Interstate Program Support
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Support for five Total Maximum Daily Load (TMDL) Additions in The Upper San Antonio River Watershed

Investigator: Lee, Hyongki Dr. 100%
Award Amount: $36,918.00
Cost Center: 00730 / 5013 / H0068 / B0001 / G106490 / 54168
Agency: Ohio State University
Pass_Thru Agency: NASA - National Aeronautics and Space Administration - Goddard Space Flight Center
Agency Type: FEDERAL
Duration: 9/5/2013 to 9/4/2014
CFDA: 43.001 Aerospace Education Services Program
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Improved Quantification of Global Mountain Glacier Mass Balance Estimate

Electrical & Computer Engineering

Investigator: Wolfe, John C. Dr. 50%
Award Amount: $102,085.00
Cost Center: 00730 / 5022 / H0070 / B0001 / C107460 / 54576
Agency: ParaPore, LLC
Pass_Thru Agency: PROFIT
Agency Type: PROFIT
Duration: 10/7/2013 to 10/6/2014
CFDA: 
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Exploratory Studies in Masked Ion Track Lithography
**Electrical & Computer Engineering**

**Investigator:** Prasad, Saurabh Dr.  
**Award Amount:** $28,545.00  
**Cost Center:** 00730 / 5013 / H0070 / B0001 / G105579 / 51803  
**Agency:** Purdue University  
**Pass_Thru Agency:** NASA - National Aeronautics and Space Administration - Headquarters (Wash., D.C.)  
**Agency Type:** FEDERAL  
**Duration:** 8/1/2012 to 7/31/2014  
**CFDA:** 43.001 Aerospace Education Services Program  
**Project Type:** Restricted Research  
**Project Title:** An Advanced Learning Framework for High Dimensional Multi-Sensor Remote Sensing Data

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**Investigator:** Jackson, David R. Dr.  
**Award Amount:** $49,965.00  
**Cost Center:** 00730 / 5013 / H0070 / B0001 / G107045 / 54584  
**Agency:** NASA - National Aeronautics and Space Administration - Johnson Space Center  
**Pass_Thru Agency:** NASA - National Aeronautics and Space Administration - Headquarters (Wash., D.C.)  
**Agency Type:** FEDERAL  
**Duration:** 9/13/2013 to 9/12/2015  
**CFDA:** 43.009 Cross Agency Support  
**Project Type:** Co-Op Agreement - Research  
**Project Title:** Development of Novel Integrated Antennas for CubeSats

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**Investigator:** Han, Zhu Dr.  
**Award Amount:** $80,000.00  
**Cost Center:** 00730 / 5013 / H0070 / B0001 / G099651 / 45949  
**Agency:** National Science Foundation  
**Pass_Thru Agency:** NASA - National Aeronautics and Space Administration - Headquarters (Wash., D.C.)  
**Agency Type:** FEDERAL  
**Duration:** 3/1/2010 to 2/28/2015  
**CFDA:** 47.070 Computer and Information Science and Engineering (CISE)  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** CAREER: Mutual Benefit in Cognitive Radio Networks: A Coalitional Game Framework
CULLEN COLLEGE OF ENGINEERING

Electrical & Computer Engineering

Investigator: Chen, Ji Dr.  50%
Award Amount: $49,965.00
Cost Center: 00730 / 5013 / H0070 / B0001 / G107045 / 54584
Agency: NASA - National Aeronautics and Space Administration - Johnson Space Center
Pass_Thru Agency: FEDERAL
Agency Type: Cross Agency Support
Duration: 9/13/2013 to 9/12/2015
CFDA: 43.009
Project Type: Co-Op Agreement - Research
Project Title: Development of Novel Integrated Antennas for CubeSats

Nanosystem Manufacturing Center

Investigator: Wolfe, John C. Dr.  25%
Award Amount: $51,042.50
Cost Center: 00730 / 5022 / H0070 / B0001 / C107460 / 54576
Agency: ParaPore, LLC
Pass_Thru Agency: PROFIT
Agency Type: Cross Agency Support
Duration: 10/7/2013 to 10/6/2014
CFDA: 43.009
Project Type: Grant - Research
Project Title: Exploratory Studies in Masked Ion Track Lithography

DIVISION OF RESEARCH

Division of Research

Investigator: Bose - DOR, Rathindra Dr.  100%
Award Amount: $3,568,840.00
Cost Center: 00730 / 5017 / H0233 / B0001 / C105271 / 51192
Agency: Texas Higher Education Coordinating Board
Pass_Thru Agency: STATE
Agency Type: Cross Agency Support
Duration: 1/5/2012 to 8/31/2016
CFDA: 43.009
Project Type: Other Support - Research
Project Title: TRIP Matching Funds
**INSTITUTE FOR NANOENERGY**

**Investigator:** Curran, Seamus Dr.  
**Award Amount:** $57,500.00  
**Cost Center:** 00730 / 5021 / H0112 / B0001 / C108127 / 54752  
**Agency:** C-Bond Systems, LLC  
**Pass_Thru Agency:** NON PROFIT  
**Duration:** 2/18/2014 to 8/18/2014  
**Project Title:** Ballistic spray-on protection nano-coating for Glass

**TcSUH**

**Investigator:** Wolfe, John C. Dr.  
**Award Amount:** $51,042.50  
**Cost Center:** 00730 / 5022 / H0070 / B0001 / C107460 / 54576  
**Agency:** ParaPore, LLC  
**Pass_Thru Agency:** PROFIT  
**Duration:** 10/7/2013 to 10/6/2014  
**Project Title:** Exploratory Studies in Masked Ion Track Lithography

**TIMES**

**Investigator:** Barr, Christopher Dr.  
**Award Amount:** $75,249.60  
**Cost Center:** 00730 / 5013 / H0288 / B0001 / G103892 / 51005  
**Agency:** Lehigh University  
**Pass_Thru Agency:** U.S. Department of Education  
**Agency Type:** FEDERAL  
**Duration:** 3/1/2012 to 2/28/2015  
**Project Title:** Reading Achievement Multi-Component Program (RAMP-UP)
DIVISION OF RESEARCH

TIMES

Investigator: McIntyre, Maria Teresa Dr.  50%
Award Amount: $200,000.00
Cost Center: 00730 / 5013 / H0288 / B0001 / G101970 / 48264
Agency: Institute of Educational Sciences
Pass_Thru Agency: 
Agency Type: FEDERAL
Duration: 3/1/2011 to 2/28/2015
CFDA: 84.305 National Institute on Student Achievement, Curriculum and Assessment
CB Designation: Restricted Research
Project Type: Grant - Research
Project Title: Using longitudinal and momentary analysis to study the impact of middle school teachers' stress on teacher effectiveness, student behavior and achievement

VICE PRESIDENT FOR ADMINISTRATION

KUHT-TV

Investigator: Shumate, Lisa Trapani Ms.  100%
Award Amount: $148,489.00
Cost Center: 00730 / 5013 / H0436 / C0001 / G107197 / 54801
Agency: Public Broadcasting Service
Pass_Thru Agency: U.S. Department of Commerce - National Telecommunications and Information Administration
Agency Type: FEDERAL
Duration: 1/30/2013 to 8/31/2014
CFDA: 11.553 Special Projects
CB Designation: Non Research
Project Type: Grant - Public Service
Project Title: Phase II-HARDENING SUB-GRA NT PROGRAM

REPORTING PERIOD ACTIVITY SUMMARY

Federal Funding: $2,092,486.00
State Funding: $3,733,145.00
Local Funding: $0.00
Profit Funding: $279,170.00
Non Profit Funding: $275,074.00
Foundation Funding: $159,000.00
University Funding: $23,691.00
Total: $6,562,566.00