

**UNIVERSITY OF HOUSTON**  
**Division of Research**  
**New/Continuation Sponsored Research Grants and Contracts**  
**Fiscal Year 2016 - Received during NOVEMBER**

**COLLEGE OF EDUCATION****Curriculum and Instruction**

**Investigator:** Dominey, Wallace Dr. 100%  
**Award Amount:** \$15,000.00  
**Cost Center:** 00730 / 5015 / H0062 / A0001 / G109772 / 57565  
**Agency:** University of Texas at Austin  
**Pass\_Thru Agency:** U.S. Department of Education  
**Agency Type:** FEDERAL  
**Duration:** 5/1/2015 to 7/31/2016  
**CFDA:** 84.366 Mathematics and Science Partnerships  
**CB Designation:** Non Research  
**Project Type:** Grant - Instruction  
**Project Title:** 2015-2016 Texas Mathematics and Science Partnerships Professional Development Network

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**Dean, Education**

**Investigator:** Hawkins, Jacqueline Dr. 15%  
**Award Amount:** \$45,000.00  
**Cost Center:** 00730 / 5021 / H0102 / B0100 / C107517 / 55882  
**Agency:** Howard Hughes Medical Institute  
**Pass\_Thru Agency:**  
**Agency Type:** NON PROFIT  
**Duration:** 9/1/2014 to 8/31/2019  
**CFDA:**  
**CB Designation:** Non Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Sustaining Excellence: Introduction of Freshmen Course Instructional Changes and Student Academic Support to Increase the Six Year Graduation Rate (Persistence) of STEM Majors.

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**Psychological, Health, and Learning Sciences**

**Investigator:** Reitzel, Lorraine Dr. 100%  
**Award Amount:** \$9,370.00  
**Cost Center:** 00730 / 5016 / H0064 / B0001 / G109385 / 56532  
**Agency:** Rice University  
**Pass\_Thru Agency:** Cancer Prevention and Research Institute of Texas  
**Agency Type:** STATE  
**Duration:** 12/1/2014 to 11/30/2015  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Taking Texas Tobacco-Free: Expanding the Integral Care Campus and Community Model into a Statewide Cancer Prevention Program

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**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2016 - Received during NOVEMBER****COLLEGE OF EDUCATION****Psychological, Health, and Learning Sciences****Investigator:** CorreaFernandez, Virmarie Dr. 100%**Award Amount:** \$145,289.00**Cost Center:** 00730 / 5021 / H0064 / B0001 / C110812 / 58382**Agency:** American Cancer Society**Pass\_Thru Agency:****Agency Type:** NON PROFIT**Duration:** 9/1/2015 to 8/31/2020**CFDA:****CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Reducing Tobacco-related Health Disparities: A Focus on Mental Health

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**UH Charter School****Investigator:** Black, Carolyn Dr. 100%**Award Amount:** \$4,016.00**Cost Center:** 00730 / 5017 / H0441 / C0001 / C109232 / 56379**Agency:** Texas Education Agency**Pass\_Thru Agency:** Office of the Governor**Agency Type:** STATE**Duration:** 9/1/2014 to 9/30/2016**CFDA:****CB Designation:** Non Research**Project Type:** Grant - Public Service**Project Title:** Charter School: Foundation School Program Administration - Bilingual Education Allotment

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**Investigator:** Black, Carolyn Dr. 100%**Award Amount:** \$21,013.00**Cost Center:** 00730 / 5017 / H0441 / C0001 / C104441 / 49964**Agency:** Texas Education Agency**Pass\_Thru Agency:** State of Texas**Agency Type:** STATE**Duration:** 9/1/2011 to 9/30/2016**CFDA:****CB Designation:** Non Research**Project Type:** Grant - Public Service**Project Title:** UH Charter School Instructional Materials Allotment FY 2011-2013

**UNIVERSITY OF HOUSTON**  
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**Fiscal Year 2016 - Received during NOVEMBER**

**COLLEGE OF EDUCATION****UH Charter School**

**Investigator:** Black, Carolyn Dr. 100%  
**Award Amount:** \$112,827.00  
**Cost Center:** 00730 / 5017 / H0441 / C0001 / C104214 / 49770  
**Agency:** Texas Education Agency  
**Pass\_Thru Agency:** State of Texas  
**Agency Type:** STATE  
**Duration:** 9/1/2011 to 9/30/2016  
**CFDA:**  
**CB Designation:** Non Research  
**Project Type:** Grant - Public Service  
**Project Title:** Charter School:Foundation School Program Special Education S&W FY12

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**Investigator:** Paquin, Patricia Mrs. 100%  
**Award Amount:** \$3,333.00  
**Cost Center:** 00730 / 5014 / H0441 / C0001 / C104225 / 49773  
**Agency:** Texas Education Agency  
**Pass\_Thru Agency:** U.S. Department of Education  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2011 to 9/30/2016  
**CFDA:** 84.367 Improving Teacher Quality State Grants  
**CB Designation:** Non Research  
**Project Type:** Grant - Public Service  
**Project Title:** Charter School: Title II, Part A FY12

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**Investigator:** Black, Carolyn Dr. 100%  
**Award Amount:** \$22,000.00  
**Cost Center:** 00730 / 5014 / H0441 / C0001 / C104229 / 49776  
**Agency:** Texas Education Agency  
**Pass\_Thru Agency:** State of Texas  
**Agency Type:** STATE  
**Duration:** 9/1/2011 to 9/30/2016  
**CFDA:**  
**CB Designation:** Non Research  
**Project Type:** Grant - Public Service  
**Project Title:** Charter School: National School Lunch Program FY 12

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**COLLEGE OF EDUCATION****UH Charter School**

**Investigator:** Black, Carolyn Dr. 100%  
**Award Amount:** \$60,203.00  
**Cost Center:** 00730 / 5017 / H0441 / C0001 / C104215 / 49771  
**Agency:** Texas Education Agency  
**Pass\_Thru Agency:** State of Texas  
**Agency Type:** STATE  
**Duration:** 9/1/2011 to 9/30/2016  
**CFDA:**  
**CB Designation:** Non Research  
**Project Type:** Grant - Public Service  
**Project Title:** Charter School: Foundation School Program Administration S&W FY 12

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**Investigator:** Black, Carolyn Dr. 100%  
**Award Amount:** \$350.00  
**Cost Center:** 00730 / 5016 / H0441 / C0001 / C105879 / 51918  
**Agency:** Texas Education Agency  
**Pass\_Thru Agency:** Office of the Governor  
**Agency Type:** STATE  
**Duration:** 8/1/2011 to 9/30/2016  
**CFDA:**  
**CB Designation:** Non Research  
**Project Type:** Grant - Public Service  
**Project Title:** School Lunch Matching

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**Investigator:** Black, Carolyn Dr. 100%  
**Award Amount:** \$37,344.00  
**Cost Center:** 00730 / 5017 / H0441 / C0001 / C104212 / 49760  
**Agency:** Texas Education Agency  
**Pass\_Thru Agency:** State of Texas  
**Agency Type:** STATE  
**Duration:** 9/1/2011 to 9/30/2016  
**CFDA:**  
**CB Designation:** Non Research  
**Project Type:** Grant - Public Service  
**Project Title:** Charter School: Foundation Fund Program Fund TEA

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**COLLEGE OF EDUCATION****UH Charter School**

**Investigator:** Black, Carolyn Dr. 100%  
**Award Amount:** \$47,562.00  
**Cost Center:** 00730 / 5017 / H0441 / C0001 / C109231 / 56380  
**Agency:** Texas Education Agency  
**Pass\_Thru Agency:** Office of the Governor  
**Agency Type:** STATE  
**Duration:** 9/1/2014 to 9/30/2016  
**CFDA:**  
**CB Designation:** Non Research  
**Project Type:** Grant - Public Service  
**Project Title:** Charter School: Foundation School Program Administration - Compensatory Education Allotment

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**Investigator:** Black, Carolyn Dr. 100%  
**Award Amount:** \$17,684.00  
**Cost Center:** 00730 / 5014 / H0441 / C0001 / C104226 / 49774  
**Agency:** Texas Education Agency  
**Pass\_Thru Agency:** USE DED000; U.S. Department of Education  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2011 to 9/30/2016  
**CFDA:** 84.010  
**CB Designation:** Non Research  
**Project Type:** Grant - Public Service  
**Project Title:** Charter School: Title I, Part A FY 12

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**Investigator:** Black, Carolyn Dr. 100%  
**Award Amount:** \$155,583.00  
**Cost Center:** 00730 / 5017 / H0441 / C0001 / C104213 / 49761  
**Agency:** Texas Education Agency  
**Pass\_Thru Agency:** State of Texas  
**Agency Type:** STATE  
**Duration:** 9/1/2011 to 9/30/2016  
**CFDA:**  
**CB Designation:** Non Research  
**Project Type:** Grant - Public Service  
**Project Title:** Charter School: Foundation School Program Leadership S&W FY 12

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**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2016 - Received during NOVEMBER****COLLEGE OF EDUCATION****UH Charter School**

**Investigator:** Black, Carolyn Dr. 100%  
**Award Amount:** \$639,333.00  
**Cost Center:** 00730 / 5017 / H0441 / C0001 / C104216 / 49772  
**Agency:** Texas Education Agency  
**Pass\_Thru Agency:** State of Texas  
**Agency Type:** STATE  
**Duration:** 9/1/2011 to 9/30/2016  
**CFDA:**  
**CB Designation:** Non Research  
**Project Type:** Grant - Public Service  
**Project Title:** Charter School; Foundation School Program Teacher S&W FY12

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**Investigator:** Black, Carolyn Dr. 100%  
**Award Amount:** \$10,000.00  
**Cost Center:** 00730 / 5014 / H0441 / C0001 / C104228 / 49775  
**Agency:** Texas Education Agency  
**Pass\_Thru Agency:** State of Texas  
**Agency Type:** STATE  
**Duration:** 9/1/2011 to 9/30/2016  
**CFDA:**  
**CB Designation:** Non Research  
**Project Type:** Grant - Public Service  
**Project Title:** Charter School: School Breakfast Program FY12

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**COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES****Health and Human Performance**

**Investigator:** Hernandez, Daphne Dr. 5%  
**Award Amount:** \$12,405.80  
**Cost Center:** 00730 / 5013 / H0081 / C0001 / G110061 / 58053  
**Agency:** National Institute of Food and Agriculture - USDA  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2015 to 8/31/2019  
**CFDA:** 10.223 Hispanic Serving Institutions Education Grants  
**CB Designation:** Non Research  
**Project Type:** Grant - Research  
**Project Title:** From Internships to Careers: Developing Hispanic Students through a USDA Ambassador Student Program

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COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES

## History

**Investigator:** O'Brien, Thomas F. Dr. 100%  
**Award Amount:** \$104,256.66  
**Cost Center:** 00730 / 5022 / H0089 / A0001 / C107107 / 53656  
**Agency:** Various Private Profit Agencies  
**Pass\_Thru Agency:**  
**Agency Type:** PROFIT  
**Duration:** 9/1/2000 to 8/31/2020  
**CFDA:**  
**CB Designation:** Non Restricted Research  
**Project Type:** Other Support - Instruction  
**Project Title:** Interest Bearing Account for NEH-Supported African and African-American Studies at the University of Houston

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## Psychology

**Investigator:** Barr, Christopher Dr. 20%  
**Award Amount:** \$11,334.60  
**Cost Center:** 00730 / 5013 / H0288 / B0001 / G104249 / 51746  
**Agency:** Georgia State University  
**Pass\_Thru Agency:** Institute of Educational Sciences  
**Agency Type:** FEDERAL  
**Duration:** 9/17/2012 to 8/31/2016  
**CFDA:** 84.305 Education Research, Development and Dissemination  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Developing instructional approaches suited to the cognitive and motivational needs of struggling adult readers

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COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

## Biology/Biochemistry

**Investigator:** Briggs, James M. Dr. 15%  
**Award Amount:** \$45,000.00  
**Cost Center:** 00730 / 5021 / H0102 / B0100 / C107517 / 55882  
**Agency:** Howard Hughes Medical Institute  
**Pass\_Thru Agency:**  
**Agency Type:** NON PROFIT  
**Duration:** 9/1/2014 to 8/31/2019  
**CFDA:**  
**CB Designation:** Non Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Sustaining Excellence: Introduction of Freshmen Course Instructional Changes and Student Academic Support to Increase the Six Year Graduation Rate (Persistence) of STEM Majors.

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COLLEGE OF NATURAL SCIENCES AND MATHEMATICS**Biology/Biochemistry**

**Investigator:** Williams, Cecilia Dr. 50%  
**Award Amount:** \$855.24  
**Cost Center:** 00730 / 5013 / H0515 / B0001 / G106069 / 53781  
**Agency:** National Institutes of Health  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 8/1/2013 to 8/31/2015  
**CFDA:** 93.396 Cancer Biology Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Elucidating the mechanism of ERbeta in colon carcinogenesis

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**Investigator:** Briggs, James M. Dr. 17%  
**Award Amount:** \$12,792.50  
**Cost Center:** 00730 / 5015 / H0107 / B0001 / G101701 / 47739  
**Agency:** University of Texas Medical Branch at Galveston  
**Pass\_Thru Agency:** National Institute on Drug Abuse  
**Agency Type:** FEDERAL  
**Duration:** 9/30/2010 to 8/31/2016  
**CFDA:** 93.279 Drug Abuse Research Programs  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** The 5-HT2cR Protein Complex: Mining a New Therapeutic Target for Addiction

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**Center for Nuclear Receptors and Cell Signaling**

**Investigator:** Williams, Cecilia Dr. 50%  
**Award Amount:** \$855.24  
**Cost Center:** 00730 / 5013 / H0515 / B0001 / G106069 / 53781  
**Agency:** National Institutes of Health  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 8/1/2013 to 8/31/2015  
**CFDA:** 93.396 Cancer Biology Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Elucidating the mechanism of ERbeta in colon carcinogenesis

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COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

## Center for Nuclear Receptors and Cell Signaling

**Investigator:** Gustafsson, Jan-Ake Dr. 100%  
**Award Amount:** \$0.49  
**Cost Center:** 00730 / 5016 / H0515 / B0001 / G103831 / 50062  
**Agency:** Cancer Prevention and Research Institute of Texas  
**Pass\_Thru Agency:** State of Texas  
**Agency Type:** STATE  
**Duration:** 12/1/2011 to 5/30/2015  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Advanced in vivo imaging of tumor initiation and progression

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## Chemistry

**Investigator:** Gilbertson, Scott Dr. 83%  
**Award Amount:** \$62,457.50  
**Cost Center:** 00730 / 5015 / H0107 / B0001 / G101701 / 47739  
**Agency:** University of Texas Medical Branch at Galveston  
**Pass\_Thru Agency:** National Institute on Drug Abuse  
**Agency Type:** FEDERAL  
**Duration:** 9/30/2010 to 8/31/2016  
**CFDA:** 93.279 Drug Abuse Research Programs  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** The 5-HT<sub>2c</sub>R Protein Complex: Mining a New Therapeutic Target for Addiction

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**Investigator:** Lee, T. Randall Dr. 60%  
**Award Amount:** \$48,000.00  
**Cost Center:** 00730 / 5013 / H0107 / B0001 / C110501 / 58377  
**Agency:** National Central University  
**Pass\_Thru Agency:** U.S. Air Force - Asian Office of Aerospace Research & Development  
**Agency Type:** FEDERAL  
**Duration:** 9/10/2015 to 9/9/2016  
**CFDA:** 12.800 Air Force Defense Research Sciences Program  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Photonic Nanoparticle-Doped Architectures for Enhancing Solar-to-Fuel Photocatalytic Conversion

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COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

## Chemistry

**Investigator:** Thummel, Randolph P. Dr. 100%  
**Award Amount:** \$9,683.38  
**Cost Center:** 00730 / 5013 / H0107 / B0001 / G105357 / 52029  
**Agency:** Ohio State University  
**Pass\_Thru Agency:** National Science Foundation  
**Agency Type:** FEDERAL  
**Duration:** 8/15/2012 to 7/31/2016  
**CFDA:** 47.049 Mathematical and Physical Sciences  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Tuning the Excited States of New Ru(II) Complexes for Potential Photodynamic Therapy Applications

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**Investigator:** Hoffman, David M. Dr. 15%  
**Award Amount:** \$45,000.00  
**Cost Center:** 00730 / 5021 / H0102 / B0100 / C107517 / 55882  
**Agency:** Howard Hughes Medical Institute  
**Pass\_Thru Agency:**  
**Agency Type:** NON PROFIT  
**Duration:** 9/1/2014 to 8/31/2019  
**CFDA:**  
**CB Designation:** Non Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Sustaining Excellence: Introduction of Freshmen Course Instructional Changes and Student Academic Support to Increase the Six Year Graduation Rate (Persistence) of STEM Majors.

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## Computer Science

**Investigator:** Shi, Weidong Dr. 100%  
**Award Amount:** \$130,000.00  
**Cost Center:** 00730 / 5021 / H0108 / B0001 / G110696 / 58115  
**Agency:** North Atlantic Treaty Organization  
**Pass\_Thru Agency:**  
**Agency Type:** NON PROFIT  
**Duration:** 8/31/2015 to 8/30/2017  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Privacy Preserving Big Data Processing using Cloud Computing

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**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2016 - Received during NOVEMBER****COLLEGE OF NATURAL SCIENCES AND MATHEMATICS****Computer Science****Investigator:** Kakadiaris, Ioannis Dr. 50%**Award Amount:** \$25,000.00**Cost Center:** 00730 / 5013 / H0288 / B0001 / G110782 / 58159**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 10/15/2015 to 3/31/2016**CFDA:** 47.041 Engineering Grants**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Exploiting matching score distributions to improve biometric recognition

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**Dean, Natural Sciences and Mathematics****Investigator:** Wells, Dan E. Dr. 15%**Award Amount:** \$45,000.00**Cost Center:** 00730 / 5021 / H0102 / B0100 / C107517 / 55882**Agency:** Howard Hughes Medical Institute**Pass\_Thru Agency:****Agency Type:** NON PROFIT**Duration:** 9/1/2014 to 8/31/2019**CFDA:****CB Designation:** Non Restricted Research**Project Type:** Grant - Research**Project Title:** Sustaining Excellence: Introduction of Freshmen Course Instructional Changes and Student Academic Support to Increase the Six Year Graduation Rate (Persistence) of STEM Majors.

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**Earth & Atmospheric Sciences****Investigator:** Choi, Yunsoo Dr. 50%**Award Amount:** \$27,488.00**Cost Center:** 00730 / 5016 / H0429 / B0001 / G110050 / 58007**Agency:** Lamar University/Texas Air Research Center**Pass\_Thru Agency:****Agency Type:** STATE**Duration:** 9/1/2015 to 7/15/2017**CFDA:****CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Effects of temperature on gasoline exhaust VOC speciation with implications to air quality modeling

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2016 - Received during NOVEMBER****COLLEGE OF NATURAL SCIENCES AND MATHEMATICS****Earth & Atmospheric Sciences**

**Investigator:** Flynn, James Dr. 50%  
**Award Amount:** \$85,000.00  
**Cost Center:** 00730 / 5016 / H0109 / B0001 / G110884 / 58323  
**Agency:** Texas Commission on Environmental Quality  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 6/29/2015 to 3/31/2017  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Ozonesonde Releases in Southeast and East Texas

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**Investigator:** Li, Xiangshang Dr. 60%  
**Award Amount:** \$47,294.40  
**Cost Center:** 00730 / 5016 / H0109 / B0001 / G110171 / 58326  
**Agency:** Texas Air Research Center  
**Pass\_Thru Agency:**  
**Agency Type:** NON PROFIT  
**Duration:** 9/1/2015 to 7/15/2017  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** CMAQ High Night-time Ozone Bias at Southeast Texas: Is Stronger Night-time Wind the Culprit?

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**Investigator:** Rappenglueck, Bernhard Dr. 40%  
**Award Amount:** \$31,529.60  
**Cost Center:** 00730 / 5016 / H0109 / B0001 / G110171 / 58326  
**Agency:** Texas Air Research Center  
**Pass\_Thru Agency:**  
**Agency Type:** NON PROFIT  
**Duration:** 9/1/2015 to 7/15/2017  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** CMAQ High Night-time Ozone Bias at Southeast Texas: Is Stronger Night-time Wind the Culprit?

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## UNIVERSITY OF HOUSTON

## Division of Research

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Fiscal Year 2016 - Received during NOVEMBER

COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

## Institute for Climate and Atmospheric Science

**Investigator:** Choi, Yunsoo Dr. 50%  
**Award Amount:** \$27,488.00  
**Cost Center:** 00730 / 5016 / H0429 / B0001 / G110050 / 58007  
**Agency:** Lamar University/Texas Air Research Center  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 9/1/2015 to 7/15/2017  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Effects of temperature on gasoline exhaust VOC speciation with implications to air quality modeling

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**Investigator:** Flynn, James Dr. 50%  
**Award Amount:** \$85,000.00  
**Cost Center:** 00730 / 5016 / H0109 / B0001 / G110884 / 58323  
**Agency:** Texas Commission on Environmental Quality  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 6/29/2015 to 3/31/2017  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Ozonesonde Releases in Southeast and East Texas

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## Mathematics

**Investigator:** Kuznetsov, Yuri Dr. 100%  
**Award Amount:** \$12,000.00  
**Cost Center:** 00730 / 5022 / H0110 / B0001 / C109457 / 56697  
**Agency:** ExxonMobil Upstream Research Co.  
**Pass\_Thru Agency:**  
**Agency Type:** PROFIT  
**Duration:** 12/15/2014 to 12/31/2015  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Research Agreement Number EM09998

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## UNIVERSITY OF HOUSTON

## Division of Research

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## Fiscal Year 2016 - Received during NOVEMBER

COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

## Mathematics

**Investigator:** Morgan, Jeff Dr. 15%  
**Award Amount:** \$45,000.00  
**Cost Center:** 00730 / 5021 / H0102 / B0100 / C107517 / 55882  
**Agency:** Howard Hughes Medical Institute  
**Pass\_Thru Agency:**  
**Agency Type:** NON PROFIT  
**Duration:** 9/1/2014 to 8/31/2019  
**CFDA:**  
**CB Designation:** Non Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Sustaining Excellence: Introduction of Freshmen Course Instructional Changes and Student Academic Support to Increase the Six Year Graduation Rate (Persistence) of STEM Majors.

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## Physics

**Investigator:** Freundlich, Alexandre Dr. 20%  
**Award Amount:** \$18,500.00  
**Cost Center:** 00730 / 5013 / H0453 / B0001 / G099644 / 49437  
**Agency:** Arizona State University  
**Pass\_Thru Agency:** National Science Foundation  
**Agency Type:** FEDERAL  
**Duration:** 8/15/2011 to 7/31/2016  
**CFDA:** 47.041 Engineering Grants  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** ERC for Quantum Energy and Sustainable Solar Technologies

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**Investigator:** Pinsky, Lawrence S. Dr. 25%  
**Award Amount:** \$120,250.00  
**Cost Center:** 00730 / 5013 / H0112 / B0001 / G107154 / 54314  
**Agency:** U.S. Department of Energy  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 11/15/2013 to 11/14/2016  
**CFDA:** 81.049 Office of Energy Research Financial Assistance Program  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Selected Problems in Relativistic Heavy Ion Physics in ALICE at the LHC - Renewal

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**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2016 - Received during NOVEMBER****COLLEGE OF NATURAL SCIENCES AND MATHEMATICS****Physics**

**Investigator:** Bellwied, Rene Dr. 50%  
**Award Amount:** \$240,500.00  
**Cost Center:** 00730 / 5013 / H0112 / B0001 / G107154 / 54314  
**Agency:** U.S. Department of Energy  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 11/15/2013 to 11/14/2016  
**CFDA:** 81.049 Office of Energy Research Financial Assistance Program  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Selected Problems in Relativistic Heavy Ion Physics in ALICE at the LHC - Renewal

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**Investigator:** Pinsky, Lawrence S. Dr. 50%  
**Award Amount:** \$24,124.63  
**Cost Center:** 00730 / 5043 / H0112 / B0001 / C109470 / 56624  
**Agency:** Wyle Science Technology and Engineering Group  
**Pass\_Thru Agency:** NASA - National Aeronautics and Space Administration - Marshall Space Flight Center  
**Agency Type:** FEDERAL  
**Duration:** 11/1/2014 to 10/31/2015  
**CFDA:** 43.007 Space Operations  
**CB Designation:** Restricted Research  
**Project Type:** Contract - Research  
**Project Title:** Medipix 3 Collaboration and support for on orbit technology development and demonstration

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**Investigator:** Li, Liming Dr. 100%  
**Award Amount:** \$103,026.00  
**Cost Center:** 00730 / 5013 / H0112 / B0001 / G109160 / 58248  
**Agency:** NASA - National Aeronautics and Space Administration - Headquarters (Wash., D.C.)  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 10/1/2015 to 9/30/2018  
**CFDA:** 43.001 Aerospace Education Services Program  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Radiant Energy Budgets of Jupiter, Saturn, and Titan From Cassini Long-term Multi-instrument Observations

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**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2016 - Received during NOVEMBER****COLLEGE OF NATURAL SCIENCES AND MATHEMATICS****Physics**

**Investigator:** Ren, Zhifeng Dr. 50%  
**Award Amount:** \$120,000.00  
**Cost Center:** 00730 / 5043 / H0452 / B0001 / G110822 / 58149  
**Agency:** Massachusetts Institute of Technology  
**Pass\_Thru Agency:** U.S. Department of Energy  
**Agency Type:** FEDERAL  
**Duration:** 8/1/2014 to 7/31/2016  
**CFDA:** 81.049 Office of Energy Research Financial Assistance Program  
**CB Designation:** Restricted Research  
**Project Type:** Contract - Research  
**Project Title:** Solid-State Solar-Thermal Energy Conversion Center (S3TEC Center)

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**COLLEGE OF OPTOMETRY****Optometry Vision Sciences**

**Investigator:** Frishman, Laura J. Dr. 100%  
**Award Amount:** \$33,801.00  
**Cost Center:** 00730 / 5015 / H0114 / B0001 / G110049 / 57282  
**Agency:** University of Texas Health Science Center at Houston  
**Pass\_Thru Agency:** National Eye Institute  
**Agency Type:** FEDERAL  
**Duration:** 5/1/2015 to 4/30/2016  
**CFDA:** 93.867 Vision Research  
**CB Designation:** Non Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Houston Area Vision Training Center 2015 (Julie Mocko)

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**Investigator:** Das, Vallabh Dr. 100%  
**Award Amount:** \$376,250.00  
**Cost Center:** 00730 / 5013 / H0114 / B0001 / G110634 / 58136  
**Agency:** National Eye Institute  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/30/2015 to 9/29/2016  
**CFDA:** 93.867 Vision Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Binocular Coordination of Eye Movements

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**UNIVERSITY OF HOUSTON**  
**Division of Research**  
**New/Continuation Sponsored Research Grants and Contracts**  
**Fiscal Year 2016 - Received during NOVEMBER**

**COLLEGE OF OPTOMETRY****Optometry Vision Sciences**

**Investigator:** Mathew, Jessica Dr. 100%  
**Award Amount:** \$7,732.87  
**Cost Center:** 00730 / 5022 / H0114 / B0001 / C109237 / 56892  
**Agency:** Shire Development LLC  
**Pass\_Thru Agency:**  
**Agency Type:** PROFIT  
**Duration:** 10/23/2014 to 12/31/2015  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** SHP606-304: A Phase 3, Multicenter, Randomized, Double-masked, and Placebo-controlled Study Evaluating the Efficacy and Safety of a 5.0% Concentration of Lifitegrast Ophthalmic Solution Compared to Placebo in Subjects with Dry Eye Disease and History of Recent Artificial Tear Use (OPUS-3)

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**COLLEGE OF PHARMACY****Clinical Pharmacy & Administration**

**Investigator:** Shah, Dhara Dr. 40%  
**Award Amount:** \$14,481.56  
**Cost Center:** 00730 / 5022 / H0118 / B0001 / C110512 / 58380  
**Agency:** Merck & Co. Inc.  
**Pass\_Thru Agency:**  
**Agency Type:** PROFIT  
**Duration:** 11/3/2015 to 11/30/2016  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Patterns of Healthcare Resource Utilization in Patients with Clostridium Difficile Infections

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**Investigator:** Garey, Kevin Dr. 60%  
**Award Amount:** \$21,722.34  
**Cost Center:** 00730 / 5022 / H0118 / B0001 / C110512 / 58380  
**Agency:** Merck & Co. Inc.  
**Pass\_Thru Agency:**  
**Agency Type:** PROFIT  
**Duration:** 11/3/2015 to 11/30/2016  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Patterns of Healthcare Resource Utilization in Patients with Clostridium Difficile Infections

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**UNIVERSITY OF HOUSTON**  
**Division of Research**  
**New/Continuation Sponsored Research Grants and Contracts**  
**Fiscal Year 2016 - Received during NOVEMBER**

**COLLEGE OF TECHNOLOGY****Center for Life Sciences Technology**

**Investigator:** Iyer, Rupa Dr. 100%  
**Award Amount:** \$74,887.00  
**Cost Center:** 00730 / 5013 / H0468 / A0001 / G110008 / 58106  
**Agency:** U.S. Department of Commerce-National Institute of Standards and Technology  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2015 to 2/28/2017  
**CFDA:** 11.620 Science, Technology, Business and/or Education Outreach  
**CB Designation:** Non Research  
**Project Type:** Co-Op Agreement - Instruction  
**Project Title:** Integration of Standards, Models of Standardization and Science Policy for the 21st Century Biotechnology Workforce

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**Construction Management**

**Investigator:** Gao, Lu Dr. 34%  
**Award Amount:** \$50,415.88  
**Cost Center:** 00730 / 5016 / H0559 / B0100 / G110197 / 58009  
**Agency:** Texas Department of Transportation  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 9/1/2015 to 9/30/2016  
**CFDA:**  
**CB Designation:** Non Restricted Research  
**Project Type:** Contract - Research  
**Project Title:** Transportation and Economic Impact of Texas Shortline Railroads

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**Investigator:** Song, Lingguang Dr. 33%  
**Award Amount:** \$48,933.06  
**Cost Center:** 00730 / 5016 / H0559 / B0100 / G110197 / 58009  
**Agency:** Texas Department of Transportation  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 9/1/2015 to 9/30/2016  
**CFDA:**  
**CB Designation:** Non Restricted Research  
**Project Type:** Contract - Research  
**Project Title:** Transportation and Economic Impact of Texas Shortline Railroads

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**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2016 - Received during NOVEMBER****COLLEGE OF TECHNOLOGY****Construction Management**

**Investigator:** Senouci, Ahmed Dr. 33%  
**Award Amount:** \$48,933.06  
**Cost Center:** 00730 / 5016 / H0559 / B0100 / G110197 / 58009  
**Agency:** Texas Department of Transportation  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 9/1/2015 to 9/30/2016  
**CFDA:**  
**CB Designation:** Non Restricted Research  
**Project Type:** Contract - Research  
**Project Title:** Transportation and Economic Impact of Texas Shortline Railroads

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**CULLEN COLLEGE OF ENGINEERING****Center for Innovative Grouting Materials and Tech**

**Investigator:** Vipulanandan, Cumaraswamy D80%  
**Award Amount:** \$39,997.60  
**Cost Center:** 00730 / 5016 / H0069 / B0001 / G110720 / 58369  
**Agency:** Texas Department of Transportation  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 9/1/2015 to 11/30/2015  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Co-Op Agreement - Research  
**Project Title:** Technical Support for Forensic Analysis of Damage to Infrastructure and Selection of Optimum Repair Strategies

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**Chemical Engineering**

**Investigator:** Balakotaiah, Vemuri Dr. 100%  
**Award Amount:** \$30,000.00  
**Cost Center:** 00730 / 5013 / H0067 / B0001 / G106992 / 54688  
**Agency:** NASA - National Aeronautics and Space Administration - Glenn Research Center  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 3/1/2014 to 2/28/2017  
**CFDA:** 43.007 Space Operations  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Modeling and Experimental Studies on Gas-Liquid Two-Phase Flow through Packed Beds in Microgravity

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## UNIVERSITY OF HOUSTON

## Division of Research

## New/Continuation Sponsored Research Grants and Contracts

## Fiscal Year 2016 - Received during NOVEMBER

CULLEN COLLEGE OF ENGINEERING

## Chemical Engineering

**Investigator:** Lee, William Dr. 100%

**Award Amount:** \$80,000.00

**Cost Center:** 00730 / 5022 / H0067 / B0001 / C106589 / 52659

**Agency:** Shell Global Solutions

**Pass\_Thru Agency:**

**Agency Type:** PROFIT

**Duration:** 2/8/2013 to 12/1/2015

**CFDA:**

**CB Designation:** Restricted Research

**Project Type:** Grant - Research

**Project Title:** How should we Forecast Production and Estimate Reserves in Unconventional Plays

---

**Investigator:** Willson, Richard Dr. 100%

**Award Amount:** \$65,000.00

**Cost Center:** 00730 / 5043 / H0067 / B0001 / C110760 / 58332

**Agency:** Centers for Disease Control

**Pass\_Thru Agency:**

**Agency Type:** FEDERAL

**Duration:** 9/3/2015 to 9/3/2016

**CFDA:** 93.317 Emerging Infections Program

**CB Designation:** Restricted Research

**Project Type:** Contract - Research

**Project Title:** Nanophosphors as Lateral Flow Reporters for Dengue Fever Diagnosis

---

**Investigator:** Balakotaiah, Vemuri Dr. 100%

**Award Amount:** \$260,000.00

**Cost Center:** 00730 / 5022 / H0067 / B0001 / C108307 / 55300

**Agency:** SABIC Americas, Inc.

**Pass\_Thru Agency:**

**Agency Type:** PROFIT

**Duration:** 4/1/2014 to 3/31/2017

**CFDA:**

**CB Designation:** Restricted Research

**Project Type:** Contract - Research

**Project Title:** Kinetic and Scale-up Studies on Catalytic Partial Oxidation of Hydrocarbons

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**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2016 - Received during NOVEMBER****CULLEN COLLEGE OF ENGINEERING****Chemical Engineering**

**Investigator:** Vekilov, Peter Dr. 100%  
**Award Amount:** \$4,452.00  
**Cost Center:** 00730 / 5013 / H0067 / B0001 / G105331 / 53937  
**Agency:** Brown University  
**Pass\_Thru Agency:** National Heart, Lung, and Blood Institute  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2013 to 5/31/2016  
**CFDA:** 93.839 Blood Diseases and Resources Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Multiscale Modeling of Sickle Cell Anemia: Methods and Validation

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**Civil Engineering**

**Investigator:** Dawood, Mina Dr. 50%  
**Award Amount:** \$105,436.00  
**Cost Center:** 00730 / 5016 / H0068 / B0001 / G107245 / 56140  
**Agency:** Texas Department of Transportation  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 9/1/2014 to 8/31/2016  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Fatigue Resistance and Reliability of High Mast Illumination Poles (HMIPs) with Pre-existing Cracks

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**Investigator:** Gencturk, Bora Dr. 50%  
**Award Amount:** \$105,436.00  
**Cost Center:** 00730 / 5016 / H0068 / B0001 / G107245 / 56140  
**Agency:** Texas Department of Transportation  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 9/1/2014 to 8/31/2016  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Fatigue Resistance and Reliability of High Mast Illumination Poles (HMIPs) with Pre-existing Cracks

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**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2016 - Received during NOVEMBER****CULLEN COLLEGE OF ENGINEERING****Electrical & Computer Engineering****Investigator:** Brankovic, Stanko Dr. 15%**Award Amount:** \$121,500.00**Cost Center:** 00730 / 5013 / H0073 / B0001 / G109386 / 58410**Agency:** U.S. Navy Office of Naval Research**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 8/15/2015 to 8/15/2016**CFDA:** 12.300 Basic and Applied Scientific Research**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Physical Property Measurement System

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**Investigator:** Yao, Yan Dr. 15%**Award Amount:** \$121,500.00**Cost Center:** 00730 / 5013 / H0073 / B0001 / G109386 / 58410**Agency:** U.S. Navy Office of Naval Research**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 8/15/2015 to 8/15/2016**CFDA:** 12.300 Basic and Applied Scientific Research**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Physical Property Measurement System

---

**Investigator:** Pan, Miao 100%**Award Amount:** \$166,679.00**Cost Center:** 00730 / 5013 / H0070 / B0001 / G110995 / 58424**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/23/2015 to 12/31/2017**CFDA:** 47.070 Computer and Information Science and Engineering (CISE)**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** EARS: Collaborative Research: Cognitive Mesh: Making Cellular Networks More Flexible

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2016 - Received during NOVEMBER****CULLEN COLLEGE OF ENGINEERING****Electrical & Computer Engineering**

**Investigator:** Bao, Jiming Dr. 15%  
**Award Amount:** \$121,500.00  
**Cost Center:** 00730 / 5013 / H0073 / B0001 / G109386 / 58410  
**Agency:** U.S. Navy Office of Naval Research  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 8/15/2015 to 8/15/2016  
**CFDA:** 12.300 Basic and Applied Scientific Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Physical Property Measurement System

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**Investigator:** Contreras-Vidal, Jose Dr. 100%  
**Award Amount:** \$36,750.00  
**Cost Center:** 00730 / 5043 / H0070 / B0001 / G110863 / 58371  
**Agency:** Veterans Administration  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 8/3/2015 to 8/2/2016  
**CFDA:** 64.000 Department of Veterans Affairs  
**CB Designation:** Restricted Research  
**Project Type:** Contract - Research  
**Project Title:** Development of a Brain Machine Interface for an Ankle Robot

---

**Investigator:** Roysam, Badrinath Dr. 100%  
**Award Amount:** \$14,392.00  
**Cost Center:** 00730 / 5016 / H0070 / B0001 / G110832 / 58384  
**Agency:** University of Texas Health Science Center at Houston  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 10/27/2015 to 4/26/2016  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Redell Research Agreement

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**CULLEN COLLEGE OF ENGINEERING****Electrical & Computer Engineering**

**Investigator:** Freundlich, Alexandre Dr. 20%  
**Award Amount:** \$18,500.00  
**Cost Center:** 00730 / 5013 / H0453 / B0001 / G099644 / 49437  
**Agency:** Arizona State University  
**Pass\_Thru Agency:** National Science Foundation  
**Agency Type:** FEDERAL  
**Duration:** 8/15/2011 to 7/31/2016  
**CFDA:** 47.041 Engineering Grants  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** ERC for Quantum Energy and Sustainable Solar Technologies

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**Industrial Engineering**

**Investigator:** Lim, Gino Jinho Dr. 100%  
**Award Amount:** \$10,160.00  
**Cost Center:** 00730 / 5016 / H0072 / B0100 / G110759 / 58341  
**Agency:** University of Texas MD Anderson Cancer Center  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 9/1/2015 to 1/15/2016  
**CFDA:**  
**CB Designation:** Non Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Robust Optimization considering Relative Biological Effects for Intensity-Modulated Proton Therapy Treatment Planning

---

**Investigator:** Lim, Gino Jinho Dr. 100%  
**Award Amount:** \$25,648.00  
**Cost Center:** 00730 / 5022 / H0072 / B0001 / G110722 / 58386  
**Agency:** Global Oncology One, Inc.  
**Pass\_Thru Agency:**  
**Agency Type:** PROFIT  
**Duration:** 10/1/2015 to 9/30/2016  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Robust models and computational algorithms for a fully automated intensity modulated proton therapy treatment planning system

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# UNIVERSITY OF HOUSTON

## Division of Research

### New/Continuation Sponsored Research Grants and Contracts

Fiscal Year 2016 - Received during NOVEMBER

#### CULLEN COLLEGE OF ENGINEERING

##### Mechanical Engineering

**Investigator:** Selvamanickam, Venkat Dr. 15%

**Award Amount:** \$121,500.00

**Cost Center:** 00730 / 5013 / H0073 / B0001 / G109386 / 58410

**Agency:** U.S. Navy Office of Naval Research

**Pass\_Thru Agency:**

**Agency Type:** FEDERAL

**Duration:** 8/15/2015 to 8/15/2016

**CFDA:** 12.300 Basic and Applied Scientific Research

**CB Designation:** Restricted Research

**Project Type:** Grant - Research

**Project Title:** Physical Property Measurement System

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**Investigator:** Mavrokefalos, Anastassios Dr. 15%

**Award Amount:** \$121,500.00

**Cost Center:** 00730 / 5013 / H0073 / B0001 / G109386 / 58410

**Agency:** U.S. Navy Office of Naval Research

**Pass\_Thru Agency:**

**Agency Type:** FEDERAL

**Duration:** 8/15/2015 to 8/15/2016

**CFDA:** 12.300 Basic and Applied Scientific Research

**CB Designation:** Restricted Research

**Project Type:** Grant - Research

**Project Title:** Physical Property Measurement System

---

**Investigator:** Ryou, Jae-Hyun Dr. 15%

**Award Amount:** \$121,500.00

**Cost Center:** 00730 / 5013 / H0073 / B0001 / G109386 / 58410

**Agency:** U.S. Navy Office of Naval Research

**Pass\_Thru Agency:**

**Agency Type:** FEDERAL

**Duration:** 8/15/2015 to 8/15/2016

**CFDA:** 12.300 Basic and Applied Scientific Research

**CB Designation:** Restricted Research

**Project Type:** Grant - Research

**Project Title:** Physical Property Measurement System

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# UNIVERSITY OF HOUSTON

## Division of Research

### New/Continuation Sponsored Research Grants and Contracts

#### Fiscal Year 2016 - Received during NOVEMBER

#### CULLEN COLLEGE OF ENGINEERING

##### Mechanical Engineering

**Investigator:** Dunbar, Bonnie Dr. 25%  
**Award Amount:** \$75,000.00  
**Cost Center:** 00730 / 5021 / H0102 / B0100 / C107517 / 55882  
**Agency:** Howard Hughes Medical Institute  
**Pass\_Thru Agency:**  
**Agency Type:** NON PROFIT  
**Duration:** 9/1/2014 to 8/31/2019  
**CFDA:**  
**CB Designation:** Non Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Sustaining Excellence: Introduction of Freshmen Course Instructional Changes and Student Academic Support to Increase the Six Year Graduation Rate (Persistence) of STEM Majors.

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##### Texas Hurricane Center for Innovative Technology

**Investigator:** Vipulanandan, Cumaraswamy D 20%  
**Award Amount:** \$9,999.40  
**Cost Center:** 00730 / 5016 / H0069 / B0001 / G110720 / 58369  
**Agency:** Texas Department of Transportation  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 9/1/2015 to 11/30/2015  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Co-Op Agreement - Research  
**Project Title:** Technical Support for Forensic Analysis of Damage to Infrastructure and Selection of Optimum Repair Strategies

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#### DIVISION OF RESEARCH

##### Center for Advanced Computing and Data Systems

**Investigator:** Pinsky, Lawrence S. Dr. 25%  
**Award Amount:** \$120,250.00  
**Cost Center:** 00730 / 5013 / H0112 / B0001 / G107154 / 54314  
**Agency:** U.S. Department of Energy  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 11/15/2013 to 11/14/2016  
**CFDA:** 81.049 Office of Energy Research Financial Assistance Program  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Selected Problems in Relativistic Heavy Ion Physics in ALICE at the LHC - Renewal

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**UNIVERSITY OF HOUSTON**  
**Division of Research**  
**New/Continuation Sponsored Research Grants and Contracts**  
**Fiscal Year 2016 - Received during NOVEMBER**

**DIVISION OF RESEARCH****Center for Advanced Computing and Data Systems**

**Investigator:** Pinsky, Lawrence S. Dr.      50%  
**Award Amount:** \$24,124.63  
**Cost Center:** 00730 / 5043 / H0112 / B0001 / C109470 / 56624  
**Agency:** Wyle Science Technology and Engineering Group  
**Pass\_Thru Agency:** NASA - National Aeronautics and Space Administration - Marshall Space Flight Center  
**Agency Type:** FEDERAL  
**Duration:** 11/1/2014 to 10/31/2015  
**CFDA:** 43.007      Space Operations  
**CB Designation:** Restricted Research  
**Project Type:** Contract - Research  
**Project Title:** Medipix 3 Collaboration and support for on orbit technology development and demonstration

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**Center for Advanced Materials**

**Investigator:** Freundlich, Alexandre Dr.      60%  
**Award Amount:** \$55,500.00  
**Cost Center:** 00730 / 5013 / H0453 / B0001 / G099644 / 49437  
**Agency:** Arizona State University  
**Pass\_Thru Agency:** National Science Foundation  
**Agency Type:** FEDERAL  
**Duration:** 8/15/2011 to 7/31/2016  
**CFDA:** 47.041      Engineering Grants  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** ERC for Quantum Energy and Sustainable Solar Technologies

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**TcSUH**

**Investigator:** Selvamanickam, Venkat Dr.      10%  
**Award Amount:** \$81,000.00  
**Cost Center:** 00730 / 5013 / H0073 / B0001 / G109386 / 58410  
**Agency:** U.S. Navy Office of Naval Research  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 8/15/2015 to 8/15/2016  
**CFDA:** 12.300      Basic and Applied Scientific Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Physical Property Measurement System

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**UNIVERSITY OF HOUSTON**  
**Division of Research**  
**New/Continuation Sponsored Research Grants and Contracts**  
**Fiscal Year 2016 - Received during NOVEMBER**

**DIVISION OF RESEARCH****TcSUH**

**Investigator:** Ren, Zhifeng Dr. 50%  
**Award Amount:** \$120,000.00  
**Cost Center:** 00730 / 5043 / H0452 / B0001 / G110822 / 58149  
**Agency:** Massachusetts Institute of Technology  
**Pass\_Thru Agency:** U.S. Department of Energy  
**Agency Type:** FEDERAL  
**Duration:** 8/1/2014 to 7/31/2016  
**CFDA:** 81.049 Office of Energy Research Financial Assistance Program  
**CB Designation:** Restricted Research  
**Project Type:** Contract - Research  
**Project Title:** Solid-State Solar-Thermal Energy Conversion Center (S3TEC Center)

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**Investigator:** Lee, T. Randall Dr. 40%  
**Award Amount:** \$32,000.00  
**Cost Center:** 00730 / 5013 / H0107 / B0001 / C110501 / 58377  
**Agency:** National Central University  
**Pass\_Thru Agency:** U.S. Air Force - Asian Office of Aerospace Research & Development  
**Agency Type:** FEDERAL  
**Duration:** 9/10/2015 to 9/9/2016  
**CFDA:** 12.800 Air Force Defense Research Sciences Program  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Photonic Nanoparticle-Doped Architectures for Enhancing Solar-to-Fuel Photocatalytic Conversion

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**Texas Obesity Research Center**

**Investigator:** Hernandez, Daphne Dr. 5%  
**Award Amount:** \$12,405.80  
**Cost Center:** 00730 / 5013 / H0081 / C0001 / G110061 / 58053  
**Agency:** National Institute of Food and Agriculture - USDA  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2015 to 8/31/2019  
**CFDA:** 10.223 Hispanic Serving Institutions Education Grants  
**CB Designation:** Non Research  
**Project Type:** Grant - Research  
**Project Title:** From Internships to Careers: Developing Hispanic Students through a USDA Ambassador Student Program

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**UNIVERSITY OF HOUSTON**  
**Division of Research**  
**New/Continuation Sponsored Research Grants and Contracts**  
**Fiscal Year 2016 - Received during NOVEMBER**

**DIVISION OF RESEARCH****TIMES**

**Investigator:** Kakadiaris, Ioannis Dr. 50%  
**Award Amount:** \$25,000.00  
**Cost Center:** 00730 / 5013 / H0288 / B0001 / G110782 / 58159  
**Agency:** National Science Foundation  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 10/15/2015 to 3/31/2016  
**CFDA:** 47.041 Engineering Grants  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Exploiting matching score distributions to improve biometric recognition

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**Investigator:** Barr, Christopher Dr. 80%  
**Award Amount:** \$45,338.40  
**Cost Center:** 00730 / 5013 / H0288 / B0001 / G104249 / 51746  
**Agency:** Georgia State University  
**Pass\_Thru Agency:** Institute of Educational Sciences  
**Agency Type:** FEDERAL  
**Duration:** 9/17/2012 to 8/31/2016  
**CFDA:** 84.305 Education Research, Development and Dissemination  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Developing instructional approaches suited to the cognitive and motivational needs of struggling adult readers

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**GRADUATE COLLEGE OF SOCIAL WORK****Child & Family for Innovative Research**

**Investigator:** Torres, Isabel Dr. 100%  
**Award Amount:** \$240,512.00  
**Cost Center:** 00730 / 5013 / H0509 / B0001 / G109364 / 58347  
**Agency:** National Institute of Nursing Research  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/25/2015 to 7/31/2017  
**CFDA:** 93.361 Nursing Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Disclosure Preferences of Older Latinos with Advanced Cancer & their Caregivers.

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**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2016 - Received during NOVEMBER****GRADUATE COLLEGE OF SOCIAL WORK****Child & Family for Innovative Research**

**Investigator:** Torres-Hostos, Luis Dr. 100%  
**Award Amount:** \$75,000.00  
**Cost Center:** 00730 / 5013 / H0509 / B0001 / G107885 / 55015  
**Agency:** University of Minnesota  
**Pass\_Thru Agency:** National Institute on Drug Abuse  
**Agency Type:** FEDERAL  
**Duration:** 1/1/2014 to 7/31/2016  
**CFDA:** 93.279 Drug Abuse Research Programs  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Effectiveness of Recovery High Schools as Continuing Care-Houston Site

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**HILTON COLLEGE OF HOTEL AND RESTAURANT MANAGEMENT****Hotel and Restaurant Management**

**Investigator:** Dawson, Mary Dr. 10%  
**Award Amount:** \$24,811.60  
**Cost Center:** 00730 / 5013 / H0081 / C0001 / G110061 / 58053  
**Agency:** National Institute of Food and Agriculture - USDA  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2015 to 8/31/2019  
**CFDA:** 10.223 Hispanic Serving Institutions Education Grants  
**CB Designation:** Non Research  
**Project Type:** Grant - Research  
**Project Title:** From Internships to Careers: Developing Hispanic Students through a USDA Ambassador Student Program

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**Investigator:** Madera, Juan Dr. 70%  
**Award Amount:** \$173,681.20  
**Cost Center:** 00730 / 5013 / H0081 / C0001 / G110061 / 58053  
**Agency:** National Institute of Food and Agriculture - USDA  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2015 to 8/31/2019  
**CFDA:** 10.223 Hispanic Serving Institutions Education Grants  
**CB Designation:** Non Research  
**Project Type:** Grant - Research  
**Project Title:** From Internships to Careers: Developing Hispanic Students through a USDA Ambassador Student Program

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**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2016 - Received during NOVEMBER****HILTON COLLEGE OF HOTEL AND RESTAURANT MANAGEMENT****Hotel and Restaurant Management**

**Investigator:** Neal, Jack Dr. 10%  
**Award Amount:** \$24,811.60  
**Cost Center:** 00730 / 5013 / H0081 / C0001 / G110061 / 58053  
**Agency:** National Institute of Food and Agriculture - USDA  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2015 to 8/31/2019  
**CFDA:** 10.223 Hispanic Serving Institutions Education Grants  
**CB Designation:** Non Research  
**Project Type:** Grant - Research  
**Project Title:** From Internships to Careers: Developing Hispanic Students through a USDA Ambassador Student Program

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**SCHOOL OF NURSING****Dean, School of Nursing**

**Investigator:** Tart, Kathryn Dr. 100%  
**Award Amount:** \$17,404.00  
**Cost Center:** 00730 / 5021 / H0586 / A0001 / C110921 / 58399  
**Agency:** Texas Nurses Foundation  
**Pass\_Thru Agency:** Robert Wood Johnson Foundation  
**Agency Type:** FOUNDATION  
**Duration:** 9/1/2015 to 8/14/2016  
**CFDA:**  
**CB Designation:** Non Research  
**Project Type:** Grant - Instruction  
**Project Title:** APIN Grant

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**REPORTING PERIOD ACTIVITY SUMMARY**

**Federal Funding:** \$3,435,556.11  
**State Funding:** \$1,778,280.49  
**Local Funding:** \$0.00  
**Profit Funding:** \$525,841.43  
**Non Profit Funding:** \$654,113.00  
**Foundation Funding:** \$17,404.00  
**University Funding:** \$0.00  
**Total:** **\$6,411,195.03**