

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****COLLEGE OF EDUCATION****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.

---

**COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES****Psychology**

**Investigator:** Massman, Paul Dr. 100%  
**Award Amount:** \$18,915.05  
**Cost Center:** 00730 / 5015 / H0125 / B0100 / G108881 / 56023  
**Agency:** University of Texas Health Science Center at Houston  
**Pass\_Thru Agency:** National Institute of Neurological Disorders and Stroke  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2014 to 7/31/2015  
**CFDA:** 93.853 Clinical Research Related to Neurological Disorders  
**CB Designation:** Non Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Clinical Neuropsychology Training-UTHSCH Ewing-Cobbs

---

**Investigator:** Sharp, Carla Dr. 100%  
**Award Amount:** \$48,170.00  
**Cost Center:** 00730 / 5021 / H0125 / B0001 / G101988 / 47486  
**Agency:** The Menninger Clinic  
**Pass\_Thru Agency:**  
**Agency Type:** NON PROFIT  
**Duration:** 9/1/2010 to 8/31/2015  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Development of Personality and Other Disorders in Adolescents -FY 14 Allison Kalpakci and Mary Madison Eagle Student Placements

---

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES****Psychology**

**Investigator:** Massman, Paul Dr. 100%  
**Award Amount:** \$20,215.00  
**Cost Center:** 00730 / 5016 / H0125 / B0100 / G108884 / 56068  
**Agency:** University of Texas Health Science Center at Houston  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 9/1/2014 to 8/31/2015  
**CFDA:**  
**CB Designation:** Non Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Clinical Neuropsychology Training-UTHSCH Breier: Student - Emily Huston-Warren

---

**Investigator:** Massman, Paul Dr. 100%  
**Award Amount:** \$21,507.00  
**Cost Center:** 00730 / 5022 / H0125 / B0100 / G108873 / 56059  
**Agency:** Houston Neuropsychology Group  
**Pass\_Thru Agency:**  
**Agency Type:** PROFIT  
**Duration:** 9/1/2014 to 8/31/2015  
**CFDA:**  
**CB Designation:** Non Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Clinical Neuropsychology Training-Houston Neuropsychology Group-Largen/Davis: Student - Marika Faytell

---

**Investigator:** Carlson, Coleen Dr. 6%  
**Award Amount:** \$74,751.90  
**Cost Center:** 00730 / 5013 / H0500 / B0001 / G103586 / 49817  
**Agency:** Centers for Disease Control  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/30/2011 to 9/29/2015  
**CFDA:** 93.535 Affordable Care Act (ACA) Childhood Obesity Research Demonstration  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Best Evaluation Tools & Techniques for Effective Recommendations for Policies (BETTER Policy Decisions)

---

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****COLLEGE OF LIBERAL ARTS AND SOCIAL SCIENCES****Psychology**

**Investigator:** Massman, Paul Dr. 100%  
**Award Amount:** \$21,441.00  
**Cost Center:** 00730 / 5013 / H0125 / B0100 / G108883 / 56039  
**Agency:** Michael E. DeBakey Veterans Affairs Medical Center  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2014 to 8/31/2015  
**CFDA:** 64.016 Veterans State Hospital Care  
**CB Designation:** Non Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Clinical Neuropsychology Training-Michael E. DeBakey Veterans Affairs Medical Center, Neurology Care Line-Collins:  
Student - William Alexander Alverson

---

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

**Investigator:** Cooper, Tim Dr. 100%  
**Award Amount:** \$150,000.00  
**Cost Center:** 00730 / 5013 / H0104 / B0001 / G108241 / 56041  
**Agency:** National Institute of Food and Agriculture - USDA  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2014 to 8/31/2016  
**CFDA:** 10.310 Agriculture and Food Research Initiative (AFRI)  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** The Impact of Stored Grain Pest Immunological Dynamics on the Evolution of Pathogen Virulence

---

**Investigator:** Zhang, Xiaoliu Dr. 25%  
**Award Amount:** \$791.25  
**Cost Center:** 00730 / 5016 / H0104 / B0001 / G107709 / 54463  
**Agency:** Cancer Prevention and Research Institute of Texas  
**Pass\_Thru Agency:** State of Texas  
**Agency Type:** STATE  
**Duration:** 6/1/2013 to 5/31/2016  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Exploration of multi-layer synergy between two novel antitumor agents against hard-to-treat solid tumors

---

## UNIVERSITY OF HOUSTON

## Division of Research

## New/Continuation Sponsored Research Grants and Contracts

Fiscal Year 2015 - Received during SEPTEMBER

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

**Investigator:** Bose, Rathindra Dr. 50%  
**Award Amount:** \$1,582.50  
**Cost Center:** 00730 / 5016 / H0104 / B0001 / G107709 / 54463  
**Agency:** Cancer Prevention and Research Institute of Texas  
**Pass\_Thru Agency:** State of Texas  
**Agency Type:** STATE  
**Duration:** 6/1/2013 to 5/31/2016  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Exploration of multi-layer synergy between two novel antitumor agents against hard-to-treat solid tumors

---

**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.

---

**Center for Nuclear Receptors and Cell Signaling**

**Investigator:** Zhang, Xiaoliu Dr. 25%  
**Award Amount:** \$791.25  
**Cost Center:** 00730 / 5016 / H0104 / B0001 / G107709 / 54463  
**Agency:** Cancer Prevention and Research Institute of Texas  
**Pass\_Thru Agency:** State of Texas  
**Agency Type:** STATE  
**Duration:** 6/1/2013 to 5/31/2016  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Exploration of multi-layer synergy between two novel antitumor agents against hard-to-treat solid tumors

---

## UNIVERSITY OF HOUSTON

## Division of Research

## New/Continuation Sponsored Research Grants and Contracts

Fiscal Year 2015 - Received during SEPTEMBER

COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

## Chemistry

**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.

---

**Investigator:** Miljanic, Ognjen Dr. 100%  
**Award Amount:** \$25,000.00  
**Cost Center:** 00730 / 5021 / H0107 / B0001 / C108978 / 56040  
**Agency:** Research Corporation for Science Advancement  
**Pass\_Thru Agency:**  
**Agency Type:** FOUNDATION  
**Duration:** 11/1/2014 to 10/31/2016  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** 3D-MoChI: Three-Dimensional Models for Chemistry Instruction

---

## Computer Science

**Investigator:** Solorio, Tamar Dr. 100%  
**Award Amount:** \$85,664.00  
**Cost Center:** 00730 / 5013 / H0108 / B0001 / G109036 / 56114  
**Agency:** National Science Foundation  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 8/31/2014 to 12/31/2018  
**CFDA:** 47.070 Computer and Information Science and Engineering (CISE)  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** CAREER: Authorship Analysis Across Domains

---

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****COLLEGE OF NATURAL SCIENCES AND MATHEMATICS****Computer Science****Investigator:** Yun, Changhoon Dr. 25%**Award Amount:** \$145,899.25**Cost Center:** 00730 / 5013 / H0108 / B0100 / G107318 / 55914**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2014 to 8/31/2017**CFDA:** 47.076 Education and Human Resources**CB Designation:** Non Restricted Research**Project Type:** Grant - Research**Project Title:** Preparing Computer Science Students for Global Challenges of the Twenty-first Century

---

**Investigator:** Gabriel, Edgar Dr. 33%**Award Amount:** \$66,000.00**Cost Center:** 00730 / 5013 / H0108 / B0001 / G105009 / 51679**Agency:** U.S. Department of Energy**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2012 to 8/31/2015**CFDA:** 81.049 Office of Energy Research Financial Assistance Program**CB Designation:** Restricted Research**Project Type:** Co-Op Agreement - Research**Project Title:** An eXascale PRogramming Environment and System Software (XPRESS)

---

**Investigator:** Solorio, Tamar Dr. 100%**Award Amount:** \$130,500.00**Cost Center:** 00730 / 5013 / H0108 / B0001 / G109031 / 56115**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 8/31/2014 to 8/31/2015**CFDA:** 47.070 Computer and Information Science and Engineering (CISE)**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** HCC: Small: Collaborative Research: Analysis of Language Samples for Detecting Language Impairment in Monolingual and Bilingual Children

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****COLLEGE OF NATURAL SCIENCES AND MATHEMATICS****Computer Science****Investigator:** Chapman, Barbara M. Dr. 34%**Award Amount:** \$68,000.00**Cost Center:** 00730 / 5013 / H0108 / B0001 / G105009 / 51679**Agency:** U.S. Department of Energy**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2012 to 8/31/2015**CFDA:** 81.049 Office of Energy Research Financial Assistance Program**CB Designation:** Restricted Research**Project Type:** Co-Op Agreement - Research**Project Title:** An eXascale PRogramming Environment and System Software (XPRESS)

---

**Investigator:** Huang, Shou-Hsuan Dr. 25%**Award Amount:** \$145,899.25**Cost Center:** 00730 / 5013 / H0108 / B0100 / G107318 / 55914**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2014 to 8/31/2017**CFDA:** 47.076 Education and Human Resources**CB Designation:** Non Restricted Research**Project Type:** Grant - Research**Project Title:** Preparing Computer Science Students for Global Challenges of the Twenty-first Century

---

**Investigator:** Shah, Shishir Dr. 25%**Award Amount:** \$145,899.25**Cost Center:** 00730 / 5013 / H0108 / B0100 / G107318 / 55914**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2014 to 8/31/2017**CFDA:** 47.076 Education and Human Resources**CB Designation:** Non Restricted Research**Project Type:** Grant - Research**Project Title:** Preparing Computer Science Students for Global Challenges of the Twenty-first Century

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****COLLEGE OF NATURAL SCIENCES AND MATHEMATICS****Computer Science****Investigator:** Pavlidis, Ioannis Dr. 50%**Award Amount:** \$8,635.50**Cost Center:** 00730 / 5016 / H0288 / B0001 / G108988 / 56085**Agency:** University of Texas Medical Branch at Galveston**Pass\_Thru Agency:****Agency Type:** STATE**Duration:** 9/1/2014 to 5/31/2015**CFDA:****CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Bridging genetic and phenotypic methods in human studies (Grad Student: Kamil Khanipov)

---

**Investigator:** Verma, Rakesh M. Dr. 25%**Award Amount:** \$145,899.25**Cost Center:** 00730 / 5013 / H0108 / B0100 / G107318 / 55914**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2014 to 8/31/2017**CFDA:** 47.076 Education and Human Resources**CB Designation:** Non Restricted Research**Project Type:** Grant - Research**Project Title:** Preparing Computer Science Students for Global Challenges of the Twenty-first Century

---

**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.



COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

## Earth &amp; Atmospheric Sciences

**Investigator:** Jadamec, Margarete Ms. 100%  
**Award Amount:** \$144,999.00  
**Cost Center:** 00730 / 5013 / H0109 / B0001 / G108987 / 56042  
**Agency:** National Science Foundation  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2014 to 8/31/2016  
**CFDA:** 47.050 Geosciences  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Numerical Modeling of Three-dimensional subduction driven mantle wedge weakening and plate-mantle decoupling

---

**Investigator:** Fu, Qi Dr. 100%  
**Award Amount:** \$41,119.00  
**Cost Center:** 00730 / 5021 / H0109 / B0001 / C107635 / 55590  
**Agency:** American Chemical Society  
**Pass\_Thru Agency:**  
**Agency Type:** NON PROFIT  
**Duration:** 9/1/2014 to 8/31/2016  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Experimental Study of Carbon and Hydrogen Isotope Equilibria among CO2 and Hydrocarbons in Sedimentary

---

## Mathematics

**Investigator:** Azencott, Robert Dr. 50%  
**Award Amount:** \$148,864.50  
**Cost Center:** 00730 / 5013 / H0110 / B0001 / G107710 / 55883  
**Agency:** National Science Foundation  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2014 to 8/31/2017  
**CFDA:** 47.049 Mathematical and Physical Sciences  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Application of large deviations to genetic evolution of bacterial populations

---

## UNIVERSITY OF HOUSTON

## Division of Research

## New/Continuation Sponsored Research Grants and Contracts

Fiscal Year 2015 - Received during SEPTEMBER

COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

## Mathematics

**Investigator:** Bodmann, Bernhard Dr. 100%  
**Award Amount:** \$229,156.00  
**Cost Center:** 00730 / 5013 / H0110 / B0001 / G107692 / 55904  
**Agency:** National Science Foundation  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2014 to 8/31/2017  
**CFDA:** 47.049 Mathematical and Physical Sciences  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Frame builder: Greedy Construction Methods for Near-Optimal Signal Sparsification, Transmission and Recovery

---

**Investigator:** Timofeyev, Ilya Dr. 50%  
**Award Amount:** \$148,864.50  
**Cost Center:** 00730 / 5013 / H0110 / B0001 / G107710 / 55883  
**Agency:** National Science Foundation  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2014 to 8/31/2017  
**CFDA:** 47.049 Mathematical and Physical Sciences  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Application of large deviations to genetic evolution of bacterial populations

---

**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.

---

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****COLLEGE OF NATURAL SCIENCES AND MATHEMATICS****Physics**

**Investigator:** Cheung, Margaret Dr. 65%  
**Award Amount:** \$202,679.10  
**Cost Center:** 00730 / 5013 / H0112 / B0001 / G102142 / 49699  
**Agency:** National Institute of General Medical Sciences  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/30/2011 to 8/31/2016  
**CFDA:** 93.859 Pharmacology, Physiology, and Biological Chemistry Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Manipulating Signaling Proteins for Target Binding and Recognition

---

**COLLEGE OF OPTOMETRY****Optometry, Community**

**Investigator:** Roberts, Tawna Dr. 100%  
**Award Amount:** \$117,971.00  
**Cost Center:** 00730 / 5013 / H0114 / B0001 / G107143 / 54176  
**Agency:** National Eye Institute  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2013 to 8/31/2017  
**CFDA:** 93.867 Vision Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** The Roles of the Afferent and Efferent Visual Systems in Guiding Human Visual Dev

---

**Investigator:** Otteson, Deborah Dr. 100%  
**Award Amount:** \$330,750.00  
**Cost Center:** 00730 / 5013 / H0114 / B0001 / G102456 / 49358  
**Agency:** National Eye Institute  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2011 to 8/31/2016  
**CFDA:** 93.867 Vision Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Regulation of Ephrin Receptor Expression in the Retina

---

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****COLLEGE OF OPTOMETRY****Optometry, Community****Investigator:** Joshi, Anand Dr. 100%**Award Amount:** \$56,978.00**Cost Center:** 00730 / 5013 / H0114 / B0001 / G106169 / 53920**Agency:** National Institutes of Health**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2013 to 8/31/2014**CFDA:** 93.867 Vision Research**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Accomodation influences in strabismus (Dr. Anand Joshi)

---

**Investigator:** Manny, Ruth E. Dr. 100%**Award Amount:** \$200,405.00**Cost Center:** 00730 / 5013 / H0114 / B0001 / G106062 / 53772**Agency:** NIH/Division of Research Grants**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2013 to 8/31/2015**CFDA:** 93.867 Vision Research**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Preschool Vision Screening by Parental Risk Factor Questionnaire

---

**Investigator:** Redfern, Rachel Dr. 100%**Award Amount:** \$368,725.00**Cost Center:** 00730 / 5013 / H0114 / B0001 / G105894 / 53798**Agency:** National Eye Institute**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2013 to 8/31/2015**CFDA:** 93.867 Vision Research**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Toll-Like receptors in dry eye inflammation and infection

## UNIVERSITY OF HOUSTON

## Division of Research

## New/Continuation Sponsored Research Grants and Contracts

Fiscal Year 2015 - Received during SEPTEMBER

COLLEGE OF OPTOMETRY

## Optometry, Community

**Investigator:** Harwerth, Ronald S. Dr. 100%  
**Award Amount:** \$368,725.00  
**Cost Center:** 00730 / 5013 / H0114 / B0001 / G104488 / 51914  
**Agency:** National Eye Institute  
**Pass\_Thru Agency:** National Eye Institute  
**Agency Type:** FEDERAL  
**Duration:** 9/30/2012 to 8/31/2017  
**CFDA:** 93.867 Vision Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Behavioral Measures of Vision

---

**Investigator:** Anderson, Heather Dr. 95%  
**Award Amount:** \$297,706.25  
**Cost Center:** 00730 / 5013 / H0114 / B0001 / G107557 / 55916  
**Agency:** National Eye Institute  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2014 to 6/30/2019  
**CFDA:** 93.867 Vision Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Identification of optimum spectacle prescriptions for patients with Down syndrome

---

**Investigator:** Patel, Nimesh Dr. 100%  
**Award Amount:** \$210,141.00  
**Cost Center:** 00730 / 5013 / H0114 / B0001 / G102515 / 49291  
**Agency:** National Eye Institute  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2011 to 8/31/2016  
**CFDA:** 93.867 Vision Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Retinal Nerve Fiber Layer Area in Aging and Glaucoma

---

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****COLLEGE OF OPTOMETRY****Optometry, Community****Investigator:** Bergmanson, Jan P. G. Dr. 100%**Award Amount:** \$52,000.00**Cost Center:** 00730 / 5022 / H0114 / B0001 / G099822 / 45027**Agency:** CooperVision, Inc.**Pass\_Thru Agency:****Agency Type:** PROFIT**Duration:** 8/3/2009 to 2/28/2015**CFDA:****CB Designation:** Restricted Research**Project Type:** Contract - Research**Project Title:** CLINICAL EVALUATION OF BIOFINITY LENSES IN AN EXTENDED RANGE CV-13-47

---

**Investigator:** Porter, Jason Dr. 100%**Award Amount:** \$360,640.00**Cost Center:** 00730 / 5013 / H0114 / B0001 / G102467 / 49379**Agency:** National Eye Institute**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2011 to 8/31/2016**CFDA:** 93.867 Vision Research**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** High-resolution imaging of the normal and diseased retina**CULLEN COLLEGE OF ENGINEERING****Chemical Engineering****Investigator:** Robertson, Megan Prof. 100%**Award Amount:** \$100,000.00**Cost Center:** 00730 / 1011 / H0067 / B0261 / C108185 / 55756**Agency:** Texas Higher Education Coordinating Board - ARP**Pass\_Thru Agency:****Agency Type:** STATE**Duration:** 9/1/2014 to 8/31/2016**CFDA:****CB Designation:** Non Restricted Research**Project Type:** Grant - Research**Project Title:** Tough Epoxy Resins Containing Sustainable Components for Wind Energy

CULLEN COLLEGE OF ENGINEERING

## Chemical Engineering

**Investigator:** Robertson, Megan Prof. 100%**Award Amount:** \$165,067.00**Cost Center:** 00730 / 5013 / H0067 / B0001 / G108160 / 55753**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2014 to 8/31/2017**CFDA:** 47.041 Engineering Grants**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Collaborative Research:  
Dynamics, Exchange Kinetics, and Structuring of Block Copolymer Micelles

---

**Investigator:** Conrad, Jacinta Prof. 100%**Award Amount:** \$299,479.00**Cost Center:** 00730 / 5013 / H0067 / B0001 / G108120 / 56046**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 10/1/2014 to 9/30/2017**CFDA:** 47.041 Engineering Grants**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Role of Attractions in Modifying the Confined Flow of Colloids

---

**Investigator:** Cirino, Patrick Dr. 100%**Award Amount:** \$115,711.00**Cost Center:** 00730 / 5013 / H0067 / B0001 / G104333 / 51678**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2012 to 8/31/2015**CFDA:** 47.041 Engineering Grants**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Collaborative Research: Metabolite-responsive regulators for polyketide pathway engineering

**UNIVERSITY OF HOUSTON**  
**Division of Research****New/Continuation Sponsored Research Grants and Contracts**  
**Fiscal Year 2015 - Received during SEPTEMBER****CULLEN COLLEGE OF ENGINEERING****Chemical Engineering**

**Investigator:** Rimer, Jeffrey Dr. 100%  
**Award Amount:** \$81,836.00  
**Cost Center:** 00730 / 5013 / H0067 / B0001 / G104113 / 51569  
**Agency:** National Science Foundation  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2012 to 8/31/2017  
**CFDA:** 47.041 Engineering Grants  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** CAREER: A Bio-Inspired Approach to Engineer Zeolite Catalysts

---

**Civil Engineering**

**Investigator:** Rodrigues, Debora Dr. 100%  
**Award Amount:** \$82,865.00  
**Cost Center:** 00730 / 5013 / H0068 / B0001 / G104093 / 50203  
**Agency:** National Science Foundation  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 1/15/2012 to 12/31/2016  
**CFDA:** 47.041 Engineering Grants  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** CAREER: Toxicology of graphene-based nanomaterials: A molecular biotechnology approach

---

**Investigator:** Rifai, Hanadi Dr. 9.5%  
**Award Amount:** \$118,357.18  
**Cost Center:** 00730 / 5013 / H0500 / B0001 / G103586 / 49817  
**Agency:** Centers for Disease Control  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/30/2011 to 9/29/2015  
**CFDA:** 93.535 Affordable Care Act (ACA) Childhood Obesity Research Demonstration  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Best Evaluation Tools & Techniques for Effective Recommendations for Policies (BETTER Policy Decisions)

---



## UNIVERSITY OF HOUSTON

## Division of Research

## New/Continuation Sponsored Research Grants and Contracts

## Fiscal Year 2015 - Received during SEPTEMBER

CULLEN COLLEGE OF ENGINEERING

## Electrical &amp; Computer Engineering

**Investigator:** Chen, Jinghong 100%  
**Award Amount:** \$175,000.00  
**Cost Center:** 00730 / 5013 / H0070 / B0001 / G108865 / 56066  
**Agency:** National Science Foundation  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/6/2014 to 8/31/2015  
**CFDA:** 47.049 Mathematical and Physical Sciences  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** MRI Consortium: Acquisition of Instrumentation for High-Speed/Radiation-Hard Optical Electronics Design and Testing

---

**Investigator:** Han, Zhu Dr. 100%  
**Award Amount:** \$227,501.00  
**Cost Center:** 00730 / 5013 / H0070 / B0001 / G108396 / 56067  
**Agency:** National Science Foundation  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 1/1/2015 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: When Social Meets Wireless in Cellular Device-to-Device Communications

---

**Investigator:** Jackson, David R. Dr. 50%  
**Award Amount:** \$21,000.00  
**Cost Center:** 00730 / 5013 / H0070 / B0001 / G107045 / 54584  
**Agency:** NASA - National Aeronautics and Space Administration - Johnson Space Center  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/13/2013 to 9/12/2015  
**CFDA:** 43.009 Cross Agency Support  
**CB Designation:** Restricted Research  
**Project Type:** Co-Op Agreement - Research  
**Project Title:** Development of Novel Integrated Antennas for CubeSats

---

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****CULLEN COLLEGE OF ENGINEERING****Electrical & Computer Engineering****Investigator:** Chen, Ji Dr. 50%**Award Amount:** \$21,000.00**Cost Center:** 00730 / 5013 / H0070 / B0001 / G107045 / 54584**Agency:** NASA - National Aeronautics and Space Administration - Johnson Space Center**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/13/2013 to 9/12/2015**CFDA:** 43.009 Cross Agency Support**CB Designation:** Restricted Research**Project Type:** Co-Op Agreement - Research**Project Title:** Development of Novel Integrated Antennas for CubeSats

---

**Investigator:** Han, Zhu Dr. 83.6%**Award Amount:** \$204,819.16**Cost Center:** 00730 / 5013 / H0070 / B0001 / G108192 / 55692**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2014 to 8/31/2017**CFDA:** 47.041 Engineering Grants**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Collaborative Research: Proactive Recovery of Electric Power Assets for Resiliency Enhancement (PREPARE)

---

**Investigator:** Han, Zhu Dr. 100%**Award Amount:** \$185,000.00**Cost Center:** 00730 / 5013 / H0070 / B0001 / G107625 / 55884**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2014 to 8/31/2017**CFDA:** 47.041 Engineering Grants**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Collaborative Research: CCSS: D2D Wireless Networks: An Interference Nightmare or Resource Allocation Auspice

## UNIVERSITY OF HOUSTON

## Division of Research

## New/Continuation Sponsored Research Grants and Contracts

Fiscal Year 2015 - Received during SEPTEMBER

CULLEN COLLEGE OF ENGINEERING

## Industrial Engineering

**Investigator:** Khator, Suresh Dr. 16.4%**Award Amount:** \$40,179.84**Cost Center:** 00730 / 5013 / H0070 / B0001 / G108192 / 55692**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2014 to 8/31/2017**CFDA:** 47.041 Engineering Grants**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Collaborative Research: Proactive Recovery of Electric Power Assets for Resiliency Enhancement (PREPARE)

## Mechanical Engineering

**Investigator:** Franchek, Matthew Dr. 50%**Award Amount:** \$160,000.00**Cost Center:** 00730 / 5013 / H0073 / B0001 / G108194 / 55763**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2014 to 8/31/2017**CFDA:** 47.041 Engineering Grants**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Automated Computational Modeling and Multi-Model Adaptive Control for Critical Patient Resuscitation**Investigator:** Grigoriadis, Karolos M. Dr. 50%**Award Amount:** \$160,000.00**Cost Center:** 00730 / 5013 / H0073 / B0001 / G108194 / 55763**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2014 to 8/31/2017**CFDA:** 47.041 Engineering Grants**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Automated Computational Modeling and Multi-Model Adaptive Control for Critical Patient Resuscitation

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****CULLEN COLLEGE OF ENGINEERING****Mechanical Engineering****Investigator:** Agrawal, Ashutosh Dr. 100%**Award Amount:** \$226,605.00**Cost Center:** 00730 / 5013 / H0073 / B0001 / G108183 / 55772**Agency:** National Science Foundation**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2014 to 8/31/2017**CFDA:** 47.041 Engineering Grants**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Collaborative research: mechanics of the nuclear lipid bilayers

---

**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.**DIVISION OF RESEARCH****Center for Advanced Computing and Data Systems****Investigator:** Cheung, Margaret Dr. 25%**Award Amount:** \$77,953.50**Cost Center:** 00730 / 5013 / H0112 / B0001 / G102142 / 49699**Agency:** National Institute of General Medical Sciences**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/30/2011 to 8/31/2016**CFDA:** 93.859 Pharmacology, Physiology, and Biological Chemistry Research**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Manipulating Signaling Proteins for Target Binding and Recognition

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****DIVISION OF RESEARCH****Center for Biomedical & Environmental Genomics****Investigator:** Chapman, Barbara M. Dr. 33%**Award Amount:** \$66,000.00**Cost Center:** 00730 / 5013 / H0108 / B0001 / G105009 / 51679**Agency:** U.S. Department of Energy**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/1/2012 to 8/31/2015**CFDA:** 81.049 Office of Energy Research Financial Assistance Program**CB Designation:** Restricted Research**Project Type:** Co-Op Agreement - Research**Project Title:** An eXascale PRogramming Environment and System Software (XPRESS)

---

**Institute for Molecular Design****Investigator:** Cheung, Margaret Dr. 10%**Award Amount:** \$31,181.40**Cost Center:** 00730 / 5013 / H0112 / B0001 / G102142 / 49699**Agency:** National Institute of General Medical Sciences**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/30/2011 to 8/31/2016**CFDA:** 93.859 Pharmacology, Physiology, and Biological Chemistry Research**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Manipulating Signaling Proteins for Target Binding and Recognition

---

**Texas Obesity Research Center****Investigator:** Layne, Charles S. Dr. 6%**Award Amount:** \$74,751.90**Cost Center:** 00730 / 5013 / H0500 / B0001 / G103586 / 49817**Agency:** Centers for Disease Control**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/30/2011 to 9/29/2015**CFDA:** 93.535 Affordable Care Act (ACA) Childhood Obesity Research Demonstration**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Best Evaluation Tools & Techniques for Effective Recommendations for Policies (BETTER Policy Decisions)

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****DIVISION OF RESEARCH****Texas Obesity Research Center****Investigator:** O'Connor, Daniel Dr. 45%**Award Amount:** \$560,639.25**Cost Center:** 00730 / 5013 / H0500 / B0001 / G103586 / 49817**Agency:** Centers for Disease Control**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/30/2011 to 9/29/2015**CFDA:** 93.535 Affordable Care Act (ACA) Childhood Obesity Research Demonstration**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Best Evaluation Tools & Techniques for Effective Recommendations for Policies (BETTER Policy Decisions)

---

**Investigator:** Ledoux, Tracey Dr. 8.5%**Award Amount:** \$105,898.53**Cost Center:** 00730 / 5013 / H0500 / B0001 / G103586 / 49817**Agency:** Centers for Disease Control**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/30/2011 to 9/29/2015**CFDA:** 93.535 Affordable Care Act (ACA) Childhood Obesity Research Demonstration**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Best Evaluation Tools & Techniques for Effective Recommendations for Policies (BETTER Policy Decisions)

---

**TIMES****Investigator:** Carlson, Coleen Dr. 24%**Award Amount:** \$299,007.60**Cost Center:** 00730 / 5013 / H0500 / B0001 / G103586 / 49817**Agency:** Centers for Disease Control**Pass\_Thru Agency:****Agency Type:** FEDERAL**Duration:** 9/30/2011 to 9/29/2015**CFDA:** 93.535 Affordable Care Act (ACA) Childhood Obesity Research Demonstration**CB Designation:** Restricted Research**Project Type:** Grant - Research**Project Title:** Best Evaluation Tools & Techniques for Effective Recommendations for Policies (BETTER Policy Decisions)

**UNIVERSITY OF HOUSTON****Division of Research****New/Continuation Sponsored Research Grants and Contracts****Fiscal Year 2015 - Received during SEPTEMBER****DIVISION OF RESEARCH****TIMES**

**Investigator:** Stuebing, Karla Dr. 5%  
**Award Amount:** \$15,668.75  
**Cost Center:** 00730 / 5013 / H0114 / B0001 / G107557 / 55916  
**Agency:** National Eye Institute  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/1/2014 to 6/30/2019  
**CFDA:** 93.867 Vision Research  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Identification of optimum spectacle prescriptions for patients with Down syndrome

---

**Investigator:** Pavlidis, Ioannis Dr. 50%  
**Award Amount:** \$8,635.50  
**Cost Center:** 00730 / 5016 / H0288 / B0001 / G108988 / 56085  
**Agency:** University of Texas Medical Branch at Galveston  
**Pass\_Thru Agency:**  
**Agency Type:** STATE  
**Duration:** 9/1/2014 to 5/31/2015  
**CFDA:**  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Bridging genetic and phenotypic methods in human studies (Grad Student: Kamil Khanipov)

---

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

**Investigator:** Kao, Dennis Dr. 1%  
**Award Amount:** \$12,458.65  
**Cost Center:** 00730 / 5013 / H0500 / B0001 / G103586 / 49817  
**Agency:** Centers for Disease Control  
**Pass\_Thru Agency:**  
**Agency Type:** FEDERAL  
**Duration:** 9/30/2011 to 9/29/2015  
**CFDA:** 93.535 Affordable Care Act (ACA) Childhood Obesity Research Demonstration  
**CB Designation:** Restricted Research  
**Project Type:** Grant - Research  
**Project Title:** Best Evaluation Tools & Techniques for Effective Recommendations for Policies (BETTER Policy Decisions)

---

**UNIVERSITY OF HOUSTON**

**Division of Research**

**New/Continuation Sponsored Research Grants and Contracts**

**Fiscal Year 2015 - Received during SEPTEMBER**

**SENIOR V.P. FOR ACADEMIC AFFAIRS AND PROVOST**

**Learning and Assessment Services**

**Investigator:** Anderson, Franklin J. Mr. 100%

**Award Amount:** \$301,376.00

**Cost Center:** 00730 / 5013 / H0219 / A0001 / G100798 / 47172

**Agency:** U.S. Department of Education

**Pass\_Thru Agency:**

**Agency Type:** FEDERAL

**Duration:** 9/1/2010 to 9/30/2014

**CFDA:** 84.042 TRIO - Student Support Services

**CB Designation:** Non Research

**Project Type:** Grant - Instruction

**Project Title:** Student Support Services (The Challenger Program)

---

**REPORTING PERIOD ACTIVITY SUMMARY**

**Federal Funding:** \$8,214,829.05

**State Funding:** \$140,651.00

**Local Funding:** \$0.00

**Profit Funding:** \$73,507.00

**Non Profit Funding:** \$389,289.00

**Foundation Funding:** \$25,000.00

**University Funding:** \$0.00

**Total:** **\$8,843,276.05**