

Introduction

One of the awards highlighted in this issue is another demonstration of the campus interest in relating to and involving the surrounding neighborhoods in its education mission.

Another award was the first for a new faculty member. Yet others show how faculty work to mentor and inspire the next generation of scientists.

The campus is still waiting to learn the specific impacts of sequestration. See what Sally Rockey says about the possible NIH impact on page 3.

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Spotlight on...

Diane Hill, Assistant Chancellor/Director Office of University-Community Partnerships

Promise Neighborhoods is a US Department of Education program designed with the vision “that all children and youth growing up in Promise Neighborhoods have access to great schools and strong systems of family and community support that will prepare them to attain an excellent education and successfully transition to college and career.”

“The purpose of Promise Neighborhoods is to significantly improve the educational and developmental outcomes of children and youth in our most distressed communities, and to transform those communities” by:

- *Identifying and increasing the capacity of eligible entities;*
- *Building a complete continuum of cradle-to-career solutions;*
- *Integrating programs and breaking down agency “silos”;*
- *Developing the local infrastructure of systems and resources; and*
- *Learning about the overall impact of the program.*

It is this formidable task that a team of community and university partners, led by Diane, are undertaking with a one year planning grant of \$498,772 from the Department of Education. Partners include several community organizations, major philanthropic foundations, the Newark Public Schools, the Newark Mayor’s Office, the Urban League of Essex County and the United Way of Essex and West Hudson. Several faculty from centers within the Rutgers School of Public Affairs and Administration (SPAA) are also involved in the effort.

The project focuses on the Newark Fairmont district, targeting students enrolled at West Side High School and the recently opened consolidated 13th Avenue Renew School.

The team is excited by this opportunity and the hope is that with the planning in place the project will be able to move into the implementation phase.

Where are we now?



Record to Break FY11



Total Awards FY12



Elizabeth Griffiths, School of Criminal Justice

In 2012 the Directorate for the Social, Behavioral and Economic Sciences of the National Science Foundation (NSF) joined forces with the Department of Justice’s National Institute of Justice (NIJ) in a collaborative program encompassing the social, behavioral, and forensic sciences (Law and Social Sciences –LSS).

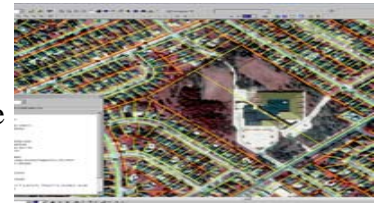
One of those early awards in the amount of \$357,669 was made to Elizabeth for her project titled “*Race, Place and Discretion in the Handling of Drug-Free Zone Charges.*”

The project is a collaboration with Kay Levine at Emory University, Joshua Hinkle and Volkan Topalli at Georgia State University. It will cover three phases of activity.

Year one will be used for the collection and analysis of data on each felony drug arrests in Atlanta, Georgia.

Year two involves a series of interviews with prosecutors to better understand the decision making process that go into filing a particular DFZ charge and not another.

Year three will implement another series of interviews with violent offenders to determine how a particular area is identified as the best location for their trade.



Laszlo Zaborszky, CMBN

Lazlo was recently successful in obtaining supplemental funding as part of the NIH program to Promote Diversity in Health Related Research. The funding makes it possible for Candice Chavez to pursue research with him on his NIH funded project titled “*Afferent Regulation of Cholinergic Forebrain Neurons.*” Candice brings her experience in psychology with specific training in learning and memory and will expand her abilities as an independent researcher. Candice will also have advantage of all the available research resources in CMBN and her unique perspectives as a minority in science will undoubtedly inspire the participants in the Newark NIH funded Minority Biomedical Research Support program.

Wilma Friedman, FASN/Biological Sciences

Wilma received supplemental funding under the NIH Promote Diversity in Health-Related Research program. The funding will support Shayri Greenwood as she conducts research on the project titled “*Modulating ProNGF-induced cell death in Epilepsy: strategies for neuroprotection.*”

got grants?

NIH

The Newark Campus remains eligible for the R15 AREA grant.

NIH Operations Under the Sequester

Posted on [March 4, 2013](#) by [Sally Rockey](#)

Dear NIH Signing Official,

As you are likely aware, in accordance with the Budget Control Act of 2011, a series of spending cuts, called sequestration, will cancel approximately \$85 billion in budgetary resources across the Federal government for the remainder of the Federal fiscal year. As a partner with you in accomplishing the NIH mission, we are writing to provide you with information about what this reduction means for the funds provided to your organization.

At this time, the Department of Health and Human Services and NIH are taking every step to mitigate the effects of these cuts, but based on our initial analysis, it is possible that your grants or cooperative agreement awards may be affected. Examples of this impact could include: not issuing continuation awards, or negotiating a reduction in the scope of your awards to meet the constraints imposed by sequestration. Additionally, plans for new grants or cooperative agreements may be re-scoped, delayed, or canceled depending on the nature of the work and the availability of resources.

To the extent that fiscal year 2013 funds for your grants or cooperative agreement are affected due to these budget cuts, you will be contacted by the appropriate Grant Management Officer with additional details at a later point. Please note that these budget cuts do not affect grant or cooperative agreement awards made with fiscal year 2012 resources.

Thank you for your continued partnership with the Department of Health and Human Services and NIH, and for your cooperation as we work together to manage these circumstances.

Sally Rockey, Ph.D.
Deputy Director for Extramural Research
National Institutes of Health

BRAIN Initiative—“In total, NIH intends to allocate \$40 million in FY14. Given the cross-cutting nature of this project, the [NIH Blueprint for Neuroscience Research](#)—an initiative spanning 14 NIH Institutes and Centers—will be the leading NIH contributor to its implementation in FY14. Of course, a goal this audacious will require ideas from the best scientists and engineers across many diverse disciplines and sectors. Therefore, NIH is working in close collaboration with other government agencies, including the Defense Advanced Research Projects Agency (DARPA) and the National Science Foundation (NSF). Strong interest has also been expressed by several private foundations, including the Howard Hughes Medical Institute, the Allen Institute for Brain Science, and The Kavli Foundation, and the Salk Institute for Biological Studies. Private industries have also expressed a high level of interest in participation in this groundbreaking initiative”. <http://www.nih.gov/science/brain/index.htm>

got grants?

NSF

National Science Foundation Participates in White House Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative



NSF will contribute \$20 million to a White House initiative called Brain Research through Advancing Innovative Neurotechnologies (BRAIN).

Credit: *Thinkstock*

Press Release 13-059

April 2, 2013

President Obama today announced that the National Science Foundation (NSF) will participate in a White House initiative called Brain Research through Advancing Innovative Neurotechnologies (BRAIN), which is designed to revolutionize our understanding of the human brain. NSF Acting Director Cora Marrett took part in the announcement at the White House, which also included the National Institutes of Health and the Defense Advanced Research Projects Agency, as well as private sector representatives.

"NSF is ideally positioned to support the BRAIN Initiative because of the broad scope of science and engineering research funding we provide to the nation," Marrett said. "NSF's neuroscience and cognitive science research portfolio is expansive, and this initiative enhances efforts that are already underway to explore neurological connections from the cellular to human behavioral levels."

NSF intends to support approximately \$20 million in research that will advance this \$100 million, 10-year initiative. The Foundation's contributions will include research into the development of molecular-scale probes that can sense and record the activity of neural networks; advances in "Big Data" that are necessary to analyze the huge amounts of information that will be generated; and increased understanding of how thoughts, emotions, actions and memories are represented in the brain.

Some of NSF's current investments in neuroscience research include:

- Studies employing species comparative approaches on how the nervous system develops and coordinates complex functions are generating the computational models of neuronal networks that are essential for understanding the emergent properties of the nervous system and how network plasticity influences behavior.
- Research on the chemical and physical principles governing the activity of neural systems is leading to mechanistic and predictive models of cellular behavior and to new approaches for understanding system-wide effects of external stimuli such as pharmacological agents and anesthetics, genetic modifiers and the environment.
- Principles underlying microelectronics, optics, optobiology and nanosystems provide key platforms for addressing the temporal and spatial characteristics of functional brain mapping.
- Converging research in machine learning, big data, computational neuroscience, human-centered computing and informatics is essential for mapping and understanding brain activity on a large scale.
- Frameworks that link brain activity patterns to a diverse range of cognitive and behavioral functions carried out in specific ecological, evolutionary, developmental and social contexts are being developed. At the same time social science theory, methods, and approaches are enabling patterns of brain activity be linked to individual behaviors making this knowledge relevant to the human experience.

For more information, go to www.whitehouse.gov/blog.

List of Awards for Rutgers Newark (January 2013 – March 2013)

| LAST NAME | FIRST NAME | DEPARTMENT | FUNDING AGENCY | TITLE | AMOUNT | TYPE | |
|--------------|------------|------------------|----------------------------|---|--|-----------|--------------|
| Abruzzo | James | Alexander Plinio | RBS-IEL | Provident Bank Fdn. | Leaders Common Ground | \$2,500 | New |
| Altan-Bonnet | Nihal | | FASN-Biological Sciences | NIH/NIAID | Assembly dynamics and role of PI4P enriched replication organelles for enteroviral RNA replication in vivo | \$345,734 | Continuation |
| Anglin | Roland | | SPAA-Cornwall Center | NJ Dept. of Law and Public Safety | YouthBuild Expansion and Innovation Pilot Grant Program | \$233,334 | New |
| Anglin | Roland | | SPAA-Cornwall Center | NJ Dept of Law and Safety, Office of the Attorney General | Municipal Planning for Safe Streets and Neighborhoods | \$500 | Supplement |
| Anglin | Roland | | SPAA-Cornwall Center | SNJ- Department of Law and Public Safety | 2012 Juvenile Justice & Delinquency Prevention Writer Grant (JJDP) | \$40,000 | New |
| Auffant | Charles | | School of Law-Newark | Victoria Fdn. | Community Law Clinic | \$10,000 | Increment |
| Braga | Anthony | | School of Criminal Justice | Prudential Fdn. | Newark Violence Reduction Initiative | \$80,000 | New |
| Braga | Anthony | | School of Criminal Justice | Victoria Fdn. | Analyzing Violent Crime and Illicit Drugs Market Problems in Newark, New Jersey | \$125,000 | New |
| Brown | Marcia | | SPAA | Open Society Fdn. | Paul Robeson Debate Consortium | \$26,500 | New |
| Cadmus | Edna | | School of Nursing | Robert Wood Johnson Fdn. | Academic Progression Pilot Project-NJAC | \$150,000 | New |
| Caplan | Joel | | School of Criminal Justice | University of Illinois | The Impact of Mental Health Linkage Arrangements and Service Accessibility on CIT | \$80,705 | New |
| Coate | Douglas | | FASN-Economics | Charles Koch Fdn. | Conversations in Economics | \$4,500 | New |
| Delgado | Mauricio | Kent Harber | FASN-Psychology | NIH-NIMH | Modulation of human reward circuitry by social factors | \$294,248 | Continuation |
| Farmer | John | Sandra King | School of Law-Newark | The Fund for New Jersey | Due Process | \$30,000 | Increment |
| Freund | Sandy | | School of Law | Department of the Treasury-IRS | Rutgers Federal Low Income Taxpayer Clinic | \$44,000 | Renewal |
| Friedman | Wilma | | FASN-Biological Sciences | NIH/NINDS | Modulating ProNGF-Induced Cell Death in Epilepsy: Strategies for Neuroprotection | \$14,466 | Supplement |
| Gao | Nan | | FASN-Biological Sciences | NIH/NIDDKS | Regulation of Apical-Basal Cell Polarity during Intestinal Epithelium Morphogenesis | \$155,822 | Continuation |
| Gluck | Mark | | CMBN | The Feinstein Institute for Medical Research | Functional Brain Networks: A Novel Approach to Address Clinical Challenges in Parkinson's Disease | \$102,799 | Continuation |
| Gluck | Mark | | CMBN | Novartis Pharmaceuticals Corp. | African-American Brain Health Alliance and Alzheimer's Awareness | \$7,500 | New |
| Graves | William | | FASN-Psychology | NIH/NICHHD | Neural systems for word recognition in space and time | \$30,832 | Supplement |

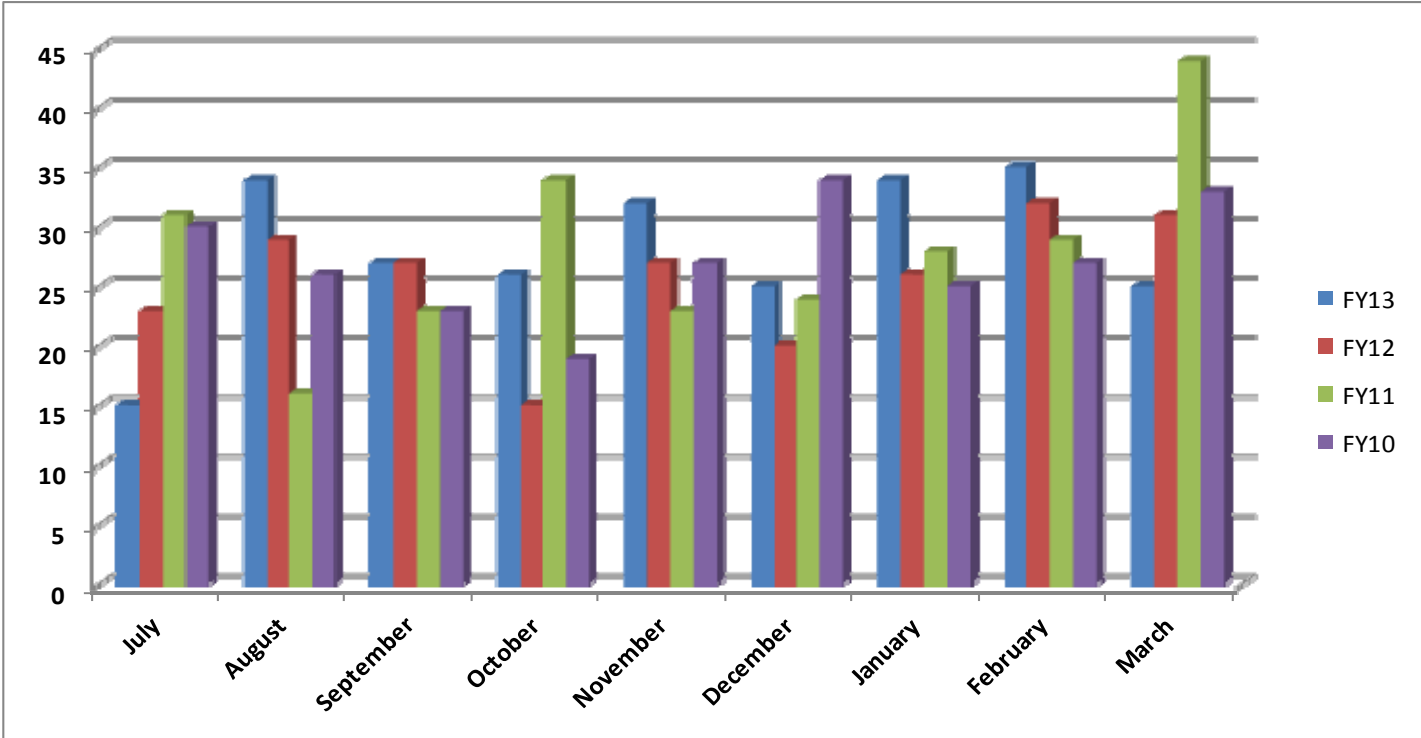
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|------------|------------|---|---------------------------------------|--|---|-----------|--------------|
| Griffiths | Elizabeth | Kay Levine, Joshua Hinkle, Volkan Topalli | School of Criminal Justice | NSF | Race, Place & Discretion in the Handling of Drug-Free Zone Charges | \$357,669 | New |
| Heider | Barbara | | CMBN | DOD-Army Research Office | Spatial Brain Control Interface using Optical and Electrophysiological Measures | \$37,639 | Continuation |
| Hill | Diane | | OUCP | US Dept. of Education | Promise Neighborhood Grant 2012 | \$498,772 | New |
| Holzappel | Claus | Kirk Moloney | FASN-Biological Sciences | DOD/SERP | Understanding and Combating the Fire-enhancing Impact of Non-native Annuals in Deserts | \$320,594 | Continuation |
| Holzemer | William | Helen Miley | College of Nursing | Robert Wood Johnson Univ. Hospital, Inc. | Robert Wood Johnson University Hospital Buyout | \$84,698 | New |
| Hopper | Brenda | Deborah Smarth | RBS/NJSBDC | SBA/NJSBDC | SBA/NJSBDC | \$645,198 | Renewal |
| Hopper | Brenda | Deborah Smarth | RBS/NJSBDC | PNC Financial Services Group | 2012 Success Awards Luncheon | \$7,500 | New |
| Hopper | Brenda | Deborah Smarth | RBS/NJSBDC | US Small Business Administration | Office of Small Business Development Centers-Portable Assistance Program | \$100,000 | New |
| Hopper | Brenda | Deborah Smarth | RBS/NJSBDC | US Small Business Administration | Office of Small Business Development Centers-Portable Assistance Program II | \$100,000 | New |
| Hopper | Brenda | Deborah Smarth | RBS/NJSBDC | SNJ Business Action Center (BAC) | New Jersey Small Business Development Centers | \$250,000 | New |
| Johansen | Mary | | College of Nursing | Emergency Nurses Assoc. Fdn. | ENA Foundation & Sigma Theta Tau International Research Grant | \$3,000 | New |
| Keating | Kristina | Lee Slater | FASN-Earth and Environmental Sciences | NSF | Joint estimates of permeability using complex resistivity and proton nuclear magnetic resonance | \$125,550 | New |
| Koos | Tibor | | CMBN | Tourette Syndrome Assoc.. | Analysis of the role of the functional loss of neuron populations associated with Tourette Syndrome in the symptomatology of the disorder | \$540 | Increment |
| Krekelberg | Bart | | CMBN | NIH/NEI | Eye Movements and Visual Perception | \$360,000 | Renewal |
| Lahr-Vivaz | Elena | | FASN-Classical and Modern Languages | The Ford Fdn. | Ford Foundation Fellowship | \$1,500 | New |
| Lin | Weiwei | | SPAA | NJ Council on the Arts | Arts Management Internship | \$20,000 | New |
| Pare | Denis | | CMBN | NIH/NIMH | Role of Intercalated amygdala neurons in the extinction of conditioned fear | \$344,149 | Continuation |
| Pare | Denis | | CMBN | NIH/NIMH | Associative properties of the perirhinal network | \$345,263 | Continuation |

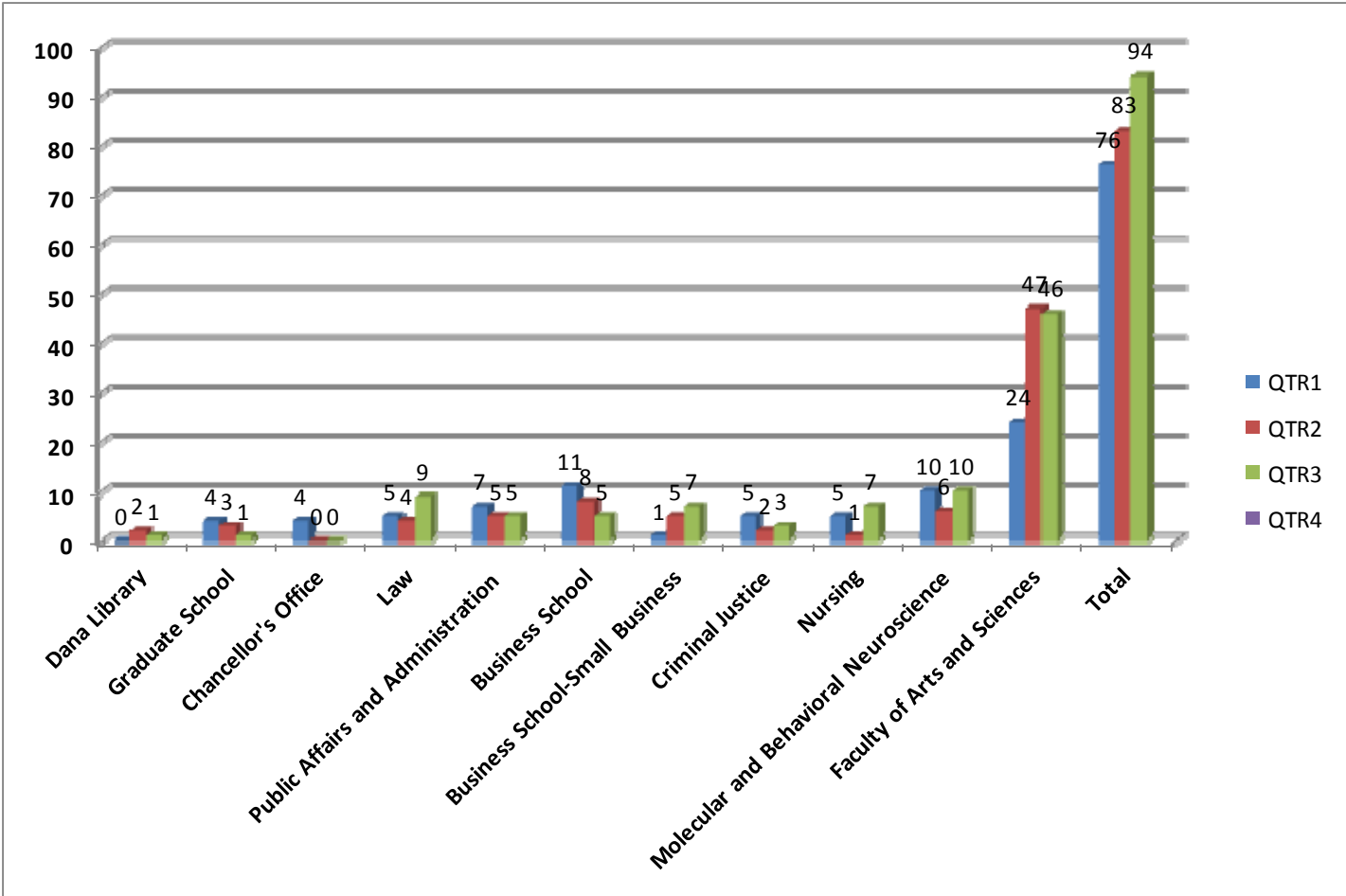
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|---------------|------------|----------------------------|--|--|---|--------------|-----|
| Plinio | Alexander | RBS | American Express Fdn. | Emerging Leaders Nonprofit Certificate Program | \$20,000 | Increment | |
| Price | Clement | FNS-History | NJ Historical Commission | Marion Thompson Wright Lecture Series - 2013 | \$7,500 | New | |
| Price | Clement | FASN-History | County of Essex –Division of Cultural Affairs | Dance Symposia Series, 2013 | \$3,400 | New | |
| Shiffrar | Maggie | Dana Mastrovito | Graduate School-Newark | NSF | Graduate Research Fellowship Program (GRFP) | \$42,000 | New |
| Tallal | Paula | CMBN | University of California at San Diego | The Temporal Dynamics of Learning Center | \$263,910 | Continuation | |
| Thomas | Shenique | School of Criminal Justice | SNJ-Office of the Attorney General | ARRA: Cross-Site Evaluation of Continuity of Care Re-entry Strategies | \$51,168 | New | |
| Thomas | Shenique | School of Criminal Justice | Research Fdn. of CUNY | The NeOn Initiative: Evaluating the Impact of the NYC DOP's New Model of Probation | \$10,155 | New | |
| Tractenberg | Paul | SPAA | Ford Fdn. | More and Better Learning Time Initiatives | \$200,000 | New | |
| Walker-McCall | Deborah | Traymanesha Moore | FASN-Academic Foundations | Victoria Fdn. | Rutgers Future Scholars Victoria Grant | \$15,000 | New |
| Walker-McCall | Deborah | FASN-Academic Foundations | The Woodrow Wilson Fdn. | Newark Early College High School | \$4,846 | Continuation | |
| Walker-McCall | Deborah | FASN-Academic Foundations | State of New Jersey, New Jersey Higher Education | AIM High Academy: Summer Earth Ecology Program | \$90,000 | Continuation | |
| Williams | Jerome | RBS-MGB | Prudential Fdn. | Entrepreneurship Pioneers Initiative (EPI) | \$100,000 | New | |
| Williams | Junius | FASN-Urban Education | Prudential Fdn. | The Abbott Leadership Institute | \$110,000 | New | |
| Williams | Junius | FASN-Urban Education | The Turrell Fund | The ALI Youth Media Symposium | \$42,000 | New | |
| Williams | Junius | FASN-Urban Education | Public Interest Projects | The Abbott Leadership Institute | \$40,000 | New | |
| Williams | Jerome | RBS-MGB | Panasonic Corporation of North America | Panasonic / Rutgers Summer Internships | \$2,424 | Supplement | |
| Xiong | Hui | RBS/MSIS | Futurewei Technologies | Network data analytics for new business opportunities/ monetization | \$20,000 | New | |
| Xiong | Hui | RBS/MSIS | Hewlett Packard Company | Exploiting Social Media for Demand Generation | \$2,000 | New | |
| Zaborszky | Laszlo | CMBN | NIH/NINDS | Afferent Regulation of Cholinergic Forebrain Neurons | \$299,054 | Continuation | |
| Zaborszky | Laszlo | CMBN | NIH/NINDS | Afferent Regulation of Cholinergic Forebrain Neurons | \$92,519 | Supplement | |

Number of Proposals by Month (based on completed endorsement forms), July 2012- March 2013



Number of Proposals by Dept. (based on completed endorsement forms), July 2012— March 2013



Press Release 13-056 (Extract)

NSF-Supported Blue Waters, One of the World's Most Powerful Computers, Is Open for Research



Blue Waters has been configured to solve the most challenging compute-, memory- and data-intensive problems in science and engineering. It has tens of thousands of chips (CPUs & GPUs), more than a petabyte of memory, tens of petabytes of disk storage, and hundreds of petabytes of archival storage.

Blue Waters, a partnership among NSF, the State of Illinois, the University of Illinois and the Great Lakes Consortium for Petascale Computation, is capable at peak performance of nearly 12 quadrillion floating point operations per second and, more importantly, has demonstrated *sustained* system performance of more than one petaflop on a range of commonly-used science and engineering applications.

This capability puts Blue Waters in a class by itself. By balancing processor performance characteristics with memory and storage attributes, it offers usable and efficient petaflop performance for large-scale scientific applications at the frontiers of computational science.

For the full release and to see how scientists are already using Blue Waters see here: http://www.nsf.gov/news/news_summ.jsp?cntn_id=127193&org=NSF&from=news

<http://researchoffice.newark.rutgers.edu/>

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