

Abstracts for Awarded Grants FY15 By Department

Academic Affairs:

PALMGREN, Jennifer: Woodrow Wilson Teaching Fellowship – Woodrow Wilson National Fellowship Foundation – 7/1/2014–6/30/2015 – PS#N1730 – Awarded: \$250,817:

This grant establishes a model for the design and implementation of the Woodrow Wilson Foundation New Jersey Teacher Fellowship Program at TCNJ. Under this Program, the Foundation will work with TCNJ to recruit some of the best and brightest individuals as Woodrow Wilson Teaching Fellows, and will place these Fellows in new graduate level teacher preparation programs. These Fellows will agree to teach in high need urban and/or rural schools in New Jersey for at least three years, while TCNJ shall provide the Fellows with intensive mentoring.

School of Business:

ALLEN, Lorraine: US SBA-SBDC Federal 2015-1/1/2015-12/31/2015-F1541-Awarded \$2,989,940.00:

Through the funding of this grant, they can continue to carry out the activities set forth in the Federal Assistance Application to operate a Small Business Development Center in accordance with the provisions contained in the Small Business Development Act of 1980. This program will continue to offer convenient, one-step business assistance by providing a wide variety of training, information, research and one-on-one confidential consultation at the on campus center in Ewing and multiple satellite locations in the Mercer County.

ALLEN, Lorraine: NJ State vs Rutgers-SBDC State 2015-7/1/2014-6/30/2015-S1541-Awarded \$16,500.00:

Through the funding of this grant, TCNJ will continue to provide the necessary personnel, equipment, facilities, and supplies to perform the work described in the Statement of Work. All services shall be rendered by or supervised directly by individuals fully qualified in the relevant professions, trade, or field, and holding any licenses required by law. TCNJ will designate Lorraine Allen as its Project Director/Principal Investigator.

Community Centers:

Bonner Center:

DONOHUE, Patrick: Old Trenton Art District – NEA-Passage Theatre – 8/1/2014-6/30/2015 – F1523– Awarded \$12,868:

Through the funding of this grant, the Bonner Center at The College of New Jersey will strive to create an Arts District in the Old Trenton Neighborhood, while also creating teaching and learning opportunities, while advancing the public interest. This grant builds on TCNJ's investment in downtown Trenton, by linking TCNJ's Community Engaged Learning courses, along with professors, Bonners, and

student volunteers to the Arts District. Furthermore, this grant will make use of TrentonWorks, “TCNJ’s downtown hub for innovation, creativity, collaboration, and community change.”

DONOHUE, Patrick: OAG Trenton Policy Prevention Board (Continuation) – NJ Office of the Attorney General – 10/29/2014-6/30/2016 – S1531 – Awarded \$80,000:

The goal of this grant is to prevent juvenile crime and improve well-being outcomes for children and families living in New Jersey communities. This grant will also seek to build a stronger community and strength its capacity to effectuate change relating to juvenile crime, delinquency, and also positive youth development. This grant will also help additional colleges and municipalities who wish to create these types of community change.

DONOHUE, Patrick: MCDHS-TCNJ Capacity Building-1/1/2015-12/31/2016-PS: S1527-Awarded: \$90,000

With this funding, it will help assist in maximizing benefits and improving the community and county by enhancing the capacity to respond to the needs of its clients and program participants of the local non-profit network. This funding will help to create and sustain at least one program at TCNJ Trenton Works that helps community partners utilize the arts as a vehicle to enhance the resiliency factors.

DONOHUE, Patrick: FNJ TPPB – Fund for New Jersey – 7/1/2014-7/30/2014 – N1575 – Awarded \$40,000:

The purpose of this grant is to further develop the capacity of the Trenton Prevention Policy Board, a unique local collaborative community network of professionals in the capital city that aims to reduce youth violence and crime through collective action. It will move the Board closer to a grassroots model that involves a substantially higher number of Trenton residents and at-risk youth in an important deliberate and action-oriented process that changes policies, practices, and programs. This grant will provide the community with a more robust and steady stream of academic resources, including students and professors that will advance its agenda.

DONOHUE, Patrick: Bonner Innovation Fund (Continuation) – The Corella and Bertram F. Bonner Foundation – 8/1/2014-7/31/2015 – N7055 – Awarded \$37,510:

Through this grant, The Bonner Center at The College of New Jersey will have the ability to address the one issue, from which most of the other problems have stemmed, that the City of Trenton is facing: the lack of economic opportunities or jobs. This grant offers an opportunity for Bonners, other students, and their partners (faculty and community) to directly and indirectly address this lack of opportunity in a place-based initiative; one that focuses on downtown Trenton. Specifically, they will help establish and maintain a city hub for community engaged learning and innovation; one that will draw visitors downtown and channel their creativity to help rejuvenate the heart of the city.

DONOHUE, Patrick: AmeriCorps Vista Year 4 Continuation – CNCS – 6/29/2014-6/27/2015 – F1152 – Awarded \$40,000:

The work of the New Jersey Bonner VISTA Fellows Program will address persistent statewide poverty issues with a particular emphasis on Essex, Middlesex, and Mercer counties. Municipalities within these

counties such as Newark, New Brunswick and Trenton are plagued by extreme levels of poverty. The need for anti-poverty programs in these targeted geographic areas is well documented. The New Jersey Bonner VISTA Fellows Program will focus on various anti-poverty services and in particular, those services related to the Corporation's focus areas of Economic Opportunity, Education, and Healthy Futures.

DONOHUE, Patrick: NJ AmeriCorp Bonner Match FY2015 – Bonner Foundation – 9/1/2014-8/31/2015 – N1555 – Awarded \$37,490:

This grant is part of an effort to mobilize students, professors, and other volunteers to address the unmet needs of local communities. In particular, this grant will be used to fund Program Operating Costs as defined by the New Jersey AmeriCorps Bonner Leader Program project budget and any other budget amendments sent to the Bonner Foundation.

DONOHUE, Patrick: National Bonner AmeriCorps Program Year 2, 2014-2015 – CNCS – 10/6/2014-10/5/2015 – F1431 – Awarded \$227,695:

Given the breadth of community needs within the targeted geographic areas, Bonner AmeriCorps members will serve with a wide range of organizations addressing the needs related to education, poverty, economic opportunity, environmental issues, services for persons living with disabilities, and other human needs. However, Bonner AmeriCorps members will be primarily involved in service related to the educational, economic, and health related needs of disadvantaged persons.

DONOHUE, Patrick: FY15 Community Partner Capacity – Agency – 7/1/2014-8/31/2015 – P1551 – Awarded \$33,377:

Funding for this grant will help continue the Community Partner Capacity Building Initiative. Bonner wants to partner with non-profit organizations to cultivate the common ground that exists between the teaching/civic mission of the College and the needs/interests of the community organization.

Center for Future Educators:

FIEBER, Laurence: Leadership Training Program – ETS – 10/1/2014 – 5/31/2015 –N1422 – Awarded \$12,000:

The Center for Future Educators at The College of New Jersey and the NJ Future Educators Association (NJFEA) are using grant funds to plan a Future Educator Leadership Institute in partnership with the NJ Principals and Supervisors Association, and in collaboration with local NJFEA high school chapters. The goal of this grant is to cultivate a new, diverse generation of future teachers as scholars, leaders, and “social entrepreneurs.” Projects will have measurable objectives, benchmarks, and evaluative components aimed at enhancing educational communities through local NJFEA chapters representing every region of NJ for a cumulative statewide impact.

NJSSI:

DREWES, Donna: PEW Foundation –PEW Health Impact Assessment-8/26/2014-2/25/2016- PS: - Awarded:\$75,000

The purpose of this effort is to use the experience of Superstorm Sandy as a case study to (1) identify health-related impacts of storm surge disasters; (2) canvas the needs and opportunities for employing health information to support the recovery of victim populations and victimized communities, especially during the initial recovery phase; (3) select appropriate indicators of these impacts; (4) determine whether such indicators can be accommodated within existing Health Impact Assessment practices as well as the modifications that might be necessary to include them; and (5) outline the components of a more holistic Health Impact Assessment process.

DREWES, Donna: RWJ Health Impact Assessment – Robert Wood Johnson – 7/1/2015-12/31/2015 – PS:N1538- Awarded \$350,000:

The purpose of this effort is to use the experience of Superstorm Sandy as a case study to (1) identify health-related impacts of storm surge disasters; (2) canvas the needs and opportunities for employing health information to support the recovery of victim populations and victimized communities, especially during the initial recovery phase; (3) select appropriate indicators of these impacts; (4) determine whether such indicators can be accommodated within existing Health Impact Assessment practices as well as the modifications that might be necessary to include them; and (5) outline the components of a more holistic Health Impact Assessment process.

DREWES, Donna: Sustainable Jersey for Schools Cert. Program – Sustainable Jersey Corporation – 7/1/2014-6/30/2015 – N1581 – Awarded \$100,000:

This grant will support the development and creation of a new Sustainable Jersey for School Districts certification program, which will be modeled after the Sustainable Jersey municipal government certification program. This program is committed to advancing sustainable development practices in schools throughout New Jersey.

DREWES, Donna: Dodge-SJ Municipal/Schools Cert. Program – Dodge Foundation – 7/1/2014-6/30/2015 – N1527 – Awarded \$222,000:

The funding from this grant is intended to support the work of TCNJ's Sustainability Institute related to Sustainable Jersey's municipal government certification program. This includes: identifying key sustainability issues that can be addressed at the local level, documenting solutions and best practices related to those issues, and maintaining a robust program of financial, technical, and peer support, and policy coordination to help move communities toward sustainability.

SOLOMON, Randall: NY Cleaner Greener Communities – NYSERDA – dates – PS – Awarded \$:

This grant funding will allow the NY Cleaner Greener Communities to succeed at their goal to lower greenhouse gas emissions in the Northeast. This goal will be completed through Phase 2 of CGC. These

projects will stimulate environmentally sustainable economic growth consistent with the Phase 1 Regional Sustainability Plans and Regional Economic Develop Council Strategic Plans.

SOLOMON, Randall: FY15 SJ Compliance Filing – NJ BPU – 7/1/2014–6/30/2015 – S1530 – Awarded: \$500,000.00:

The NJ BPU's Sustainable Jersey contract supports the NJ Clean Energy Program's (NJCEP) goals through four project areas: (1) the ongoing integration, maintenance and support of energy efficiency and renewable energy actions in our municipal and schools certification program; (2) the delivery of educational programs, outreach, and hands-on support for the local government sector as they pursue clean energy initiatives, especially regarding effective use of the NJ Clean Energy Program; (3) ongoing development of the Sustainable Jersey energy program, including targeted research and development of new Sustainable Jersey energy actions; and (4) the development of the energy related components of the new Sustainable Jersey for Schools certification program, which will help encourage effective use of the NJCEP in K-12 school districts.

SOLOMAN, Randall: National Fish and Wildlife-NFWF 2014-3/1/2015-3/1/2017-PS: F1540 –Awarded \$409,210.00

Funding of this project will help with the goal of this project which is to convene a team of the major public and private players in NJ to systemically identify successful strategies, develop them into clear, ready-to- use local actions, assess large numbers of communities for the applicability of these strategies, and work with a number of pilot communities to create quick wins and success models that will drive further adoption throughout the State.

SOLOMAN, Randall-NOAA-Community Resiliency Initiative-11/4/2014-6/1/2016-PS: F1415-Awarded: \$181,370.00

With this funding for our project, we will seek to make New Jersey communities are more resilient to coastal hazards by providing them the appropriate tools, information, guidance, and technical assistance needed to make informed decisions on mitigation and adaption measures. This project will build upon the existing work of the New Jersey Coastal Management Program, the NJ Recovery and Resiliency Network, the New Jersey Sea Grant Consortium, and New Jersey's academic institutions.

SOLOMON, Randall: Energy Resiliency Bank Design – NJ BPU – 11/1/2014-4/30/2014 – PS: S1532 – Awarded \$36,000:

With this funding, the Sustainable Institute at TCNJ will deliver a series of 5 three hour long events to solicit and document feedback from potential stakeholder clients of the NJ Energy Resiliency Bank. Also, this group will provide program design guidance as appropriate.

TCNJ Clinic:

SCOTT, Nancy: Recovery and Environmental Strategies for AOD College Campuses – Dept. of Human Services Division of Mental Health and Addiction Services – 1/1/2015-6/30/2016 – PS: S1535 – Awarded \$245,000:

If funded, this grant will be a collaborative effort across departments with staff members involved in fulfilling requirements of the grant. With these funds, TCNJ will hire an Activities Coordinator that will work alongside the Director of Recreation and the CRS to develop, promote, and facilitate ATOD-free late night activities on evenings associated with heavy drinking on campus. This will help fund resources to support these initiatives as well as marketing materials to encourage student interest and participation.

School of Education:

CSCD:

PETROFF, Jerry: New Jersey Consortium on Deaf Blindness (Year 2 of 5) – USDOE – 10/1/2014-9/30/2015 – F1449 – Awarded \$268,086:

This grant was awarded for the purpose of serving youth and adults who are deaf-blind and works with them to pursue independent living and employment goals. The goal of this project is to assure the provision of high quality education programs within natural environments/supported inclusive settings and appropriate services for infants, toddlers, children, and youth who are deaf blind. This goal will be accomplished through a menu of discrete initiatives within a responsive statewide approach for families, educators and community service providers under the following objectives: 1) To facilitate the development and ongoing implementation of a Statewide Community of Practice on the Education of Students with Deaf blindness that includes family members; deaf blind adult consumers; early intervention, special and general education personnel; and State and Local Educational Agencies; 2) To develop and implement a well-coordinated and responsive centralized system for professional development (including on-site coaching support) specific to the needs of students who are deaf blind; and 3) To develop a statewide initiative for the early and ongoing identification of infants, students and youth with deaf blindness.

PETROFF, Jerry: NJDBEDP-ICC-2015 – NJCBVI – 7/8/2014-6/30/2015 – S1559 – Awarded \$163,413:

This grant was awarded for the purpose of serving youth and adults who are deaf-blind and works with them to pursue independent living and employment goals. More specifically, this grant supports the implementation of the National Deaf-Blind Equipment Distribution Project in New Jersey.

PETROFF, Jerry: Support Service Providers of New Jersey 2015 – NJCBVI – 7/1/2014-6/30/2015 – S1565 – Awarded \$232,377:

The goal of this grant is to promote greater community integration for adults who are deaf-blind and that meet the project criteria through development and implementation of a statewide network of Support Service Providers.

PETROFF, Jerry: Work Skills Prep 2014-2015 – NJCBVI – 10/25/2014-9/30/2015 – S1561 – Awarded \$618,699:

The goal of this grant is to provide a Two-Week Summer Program for Extended School Year Service and Transition/Vocational Assessment for youth who are blind/visually impaired with complex educational needs. TCNJ will design and implement a two-week summer residential program for high school

students (ages sixteen and over), who would benefit from an employment outcome upon graduation with or without supports. There will be two, two-week sessions that will include up to twelve students per session, twenty-four students per summer. This program is designed to yield critical transition-sensitive information as well as provide a context for youth to maintain academic and functional skills over the summer months. It includes dedicated classes, community-based vocational experiences, campus-wide and community recreation activities, and independent living skills assessment and development.

PETROFF, Jerry: Support Service Providers of New Jersey 2016 – NJCBVI – 7/1/2015-6/30/2016 – S1655 – Awarded \$233, 879.79:

The goal of SSP-NJ is to promote the greater community integration for adults who are deaf-blind that meet the project criteria through the development and implementation of a statewide network of support service providers.

PETROFF, Jerry: ICanConnect 2015-2016 –NJCBVI – 7/1/2015-6/30/2016 – S1659 – Awarded \$121,563.42:

The purpose of this grant is to ensure that NJ residents who are deaf-blind and meet the program's eligibility requirements will receive specialized customer premises equipment needed to effectively access telecommunication services, Internet access services and advanced communication services.

Department of Education Admission and Secondary Education:

SEATON, Gregory-NJDOE-CDC- Y2-Y5 NJDOE CDC HIV, Sexual Health Evaluation-7/31/2014-8/1/2014-PS: F1555-Awarded \$40,000:

With this funding, nine tasks will be completed: maintenance of online databases, Support and monitor of uploading of policy data from districts. Analysis of policy document data, conduction of two focus groups of 5-7 participants. Contact/interview school district personnel. Make 2-3Site visits to view delivery or adoption of sexual health curriculum.

Department of Special Education, Language, and Literacy:

BLUMBERG, Rick: US Department of Education- Enhancing and Extending the CCS Program/Transition Programs for Students with Intellectual Disabilities into Higher Ed (Year 5 of 5)-10/1/2014-9/30/2015-PS: F1145-Awarded \$1,146,617.00:

Funding for this project will help relieve one semester of work for Project co-directors. Funding will help hire a project manager, housing specialist, Project Specialist, and funding coordinator and student workers. These funds will be used for honorarium and expenses of a Professional to be determined to provide a keynote address and one breakout session at the annual "Yes I am Going to College Conference". These funds may also be used to provide honoraria to student-presenters. Funds may also be used for Language Interpreters to be hired on an as-needed basis to translate meetings, trainings, classes, etc. to Sign Language, Spanish, and other languages.

BLUMBERG, Richard: Extending and Enhancing the Current Career and Community Studies Program (Year 5 of 5) – Department of Education – 10/1/2014-9/30/2015 – F1145 – Awarded \$255,439:

The College of New Jersey, Career and Community Studies Program, will use this funding to extend and enhance the currently operating Career and Community Studies Program (CCS) at TCNJ so to result in establishing it as a high quality inclusive comprehensive transition and postsecondary model program for students with intellectual disabilities.

Counselor Education:

SETO, Atsuko: School of Education research Mini-grant- Mental Health Facilitator Program-1/1/2015-12/31/2015-PS: N/A (Mini grant)-Awarded \$9,000:

This funding will help Continuing Education Training and field-initiated project to increase first-contact level Mental Health Service capacity on campus and surrounding communities. This funding will help increase first-contact level mental health service capacity by training paraprofessionals, laypeople, and non-mental health professionals in Mental Health Facilitator (MHF) program.

School of Engineering:

Mechanical Engineering

HERNANDEZ, Orlando: Software Development – ITS-USA– 7/1/2014–6/30/2017– P1530 – Awarded \$170,482:

Through the funding of this grant, one or more TCNJ students, under the academic supervision of TCNJ's Principal Investigator, will provide a total of forty hours of software development services, for the purpose of further developing the Software, which currently allows the validation of issued certificates or diplomas through the reading of a QR code or entering in a website a hexadecimal code. The intended general subject matter of the development will be to attempt to develop a new version of the Software that integrates the different tools and procedures that form the verification function, so that a single administration interface is used for the back end. This would allow the administrators to perform the function of code assignment for each document, generate the website, and query or present statistics of the visits to each website.

SEPAHPOUR, Bijan: Professional Formation of Engineers – NSF – 10/01/15 – 9/30/2017 – PS#: Awarded \$146,986.00:

The purpose of this research study is to create assessment tools to measure how well engineering students and engineering alumni personally identify with the profession of engineering. By studying the effects of education interventions related to professional identity, we ultimately aim to increase the number of engineers by improving undergraduate retention, undergraduate success, persistence as an engineer, and post-graduation success as an engineer.

Department of Technological Studies:

GOEKE, Alison: FY15 CTSO-TSA - NJ DOE – 9/1/2014-8/31/2015 – S1528 – Awarded \$146,500:

The Technology Student Association (TSA) is the only student organization devoted exclusively to the needs to technology education students. TSA is a catalyst for engaging students in a quality STEM education, while refining the skills they need for high-wage, high-demand careers. Participation in TSA provides an ideal platform for integrating real world, project based learning and activities, with the required science, technology, engineering, and mathematics skills needed to succeed in the 21st Century. Since TCNJ became the lead agency for TSA in 2000, it has become the fastest growing Career and Technical Student Organization (CTSO) in the state. More than 2,000 middle and high school students competed in the 2013 State Conference at TCNJ this spring, the highest in NJ TSA history. TCNJ's central location helps to draw students and educators from all areas of the state for TSA events. The low number of future professionals to fill STEM-related careers is a state and national concern, but TSA is the solution. Each year, TSA engages thousands of NJ students in STEM matter through exciting, hands-on, technology and engineering activities and competitions. By continuing to improve and expand upon the opportunities of TSA providers for NJ youth, the number of students choosing STEM-related college degrees and career paths may increase, helping to mold our state's next generation of technologists, scientists, inventors, designers, mathematicians, and engineers.

Civil Engineering

BECHTEL, Andrew: UTRC- Improving Cross-Frame Design to Reduce the Effects of Skew in Steel I-Girder-7/1/2015-4/1/2016-PS: Awarded \$15,000:

Funding for this project will help make his research plan a reality. Funding for this project will help fund a 15 month research study on the effects alternative cross-frame designs have on the secondary role of the cross-frames.

BRENNAN, Thomas: Google- GoogleEarth Pro Educational Software-3/28/2014-3/27/2015-PS: N/A- Awarded \$0.00

Request for Google maps because one of the issues identified as part of a class survey is the need for a dynamic campus map that provides a tiered approach for assessing traffic performance in and around TCNJ. TCNJ would like to prototype a system that would use these maps to create cell phone apps and webpages to easily guide people to and from campus for all occasions during the project construction.

BRENNAN, Thomas: NJ Manufacturers Insurance Company – Impact of Driver Simulators on Teen Driving Habits in New Jersey – 6/15/2015-12/31/2015 – PS: N1647 – Awarded \$30,000.00

TCNJ will conduct research and analyze New Jersey crash data on teen driving and provide reports on whether there is a reduction in teen crashes within social districts in which school districts in which NJM has donated simulators and provided Teen Driving Presentations.

BRENNAN, Thomas: University of Alabama- SubContract-Mobility Report University of Alabama- 1/1/2014-9/1/2015-PS: F1539-Awarded \$15,000:

Funding for this project will allow Dr. Brennan to assist in data ingestion and spatial joining and queries And will help with code to compile the final reports and additional exploratory methods discussed before the RAC. The funding will cover for a stipend for the work done and for travel expenses.

School of Humanities and Social Science:

Criminology:

STOUT, Bruce: US Bureau of Justice-VOA/DV Second Chance Mentoring Project-10/1/2014-9/30/2016- PS: F1542 Awarded-\$3,600

Funding for this project will be used to create a Category 1A project to provide mentoring to adult offenders who are incarcerated in and returning to our target area which is Camden County, NJ. The model is to offer both pre- and post-release mentoring services to 120 offenders over the two year grant period by serving 60 offenders each year.

English:

BLAKE, David: NEH-Enduring Questions- NEH Enduring Questions Course on Ancient and Modern Meanings of Fame-7/1/2015-12/31/2016-PS: N/A-Awarded \$21,973.00:

Funding for this project will help implement a new course to explore history and literature of fame as it occurred before the advent of mechanical and digital reproduction.

History:

CHAZELLE, Celia: Pathways Project: NJ STEP – Gates Foundation>Rutgers – 7/1/2014-12/31/2014 – N1542 – Awarded \$21,000:

The College of New Jersey was awarded this grant to work in conjunction with the NJ-Step staff at Rutgers University School of Criminal Justice to offer college courses in NJ State correctional facilities as a member of the STEP Consortium. TCNJ will specifically recruit faculty to teach courses offered by the college, both college level degree tracked courses and combined courses with TCNJ civilian students.

Philosophy, Religion, and Classical Studies:

SISKO, John: Exploring Economic Justice: New Jersey, the Nation, and the World – NJCH National Endowment of the Humanities – 8/1/2014-5/1/2015 – F1514 – Awarded \$19,965:

This series examines economic justice from a broad range of humanities perspectives. Leading humanities scholars and filmmakers explore the ways in which issues of race, gender, immigration, extreme poverty, education, urban policy, politics, philosophy, religion, literature, history, and music intersect with perspectives on economic disparity. Through this series, we seek to promote a spirited and productive cross-cultural discussion, involving an intergenerational New Jersey audience.

World Languages:

RIFKIN, Benjamin: Globalizing History Education at TCNJ (Year 3) – US Department of Education – 9/1/2014-8/31/2015 – F1365 – Awarded \$123,926:

This grant globalizes the curriculum for students majoring in history secondary education, by developing a new course on the practice of oral history and providing these students with an opportunity to study Russian language and history and volunteer in a Russian high school in Vladimir, Russia. The program will enrich the intermediate Russian curriculum with history-based language lessons to prepare students for community-engaged learning, which consists of an Oral History Project with elderly Russian-speaking immigrants in Philadelphia and is facilitated by a community center in the Russian neighborhood of Northeast Philadelphia, the New World Association. This program teams TCNJ students with practicing in-service teachers for an intensive week-long Russian history seminar coupled with an oral history methods seminar immediately prior to the Oral History Project in Philadelphia. This experience will help professionalize our students while globalizing the practice of the in-service teachers.

Library System:

TOSAKA, Yuji: Continuing Education Program for Cataloguing and Metadata Librarians – IMLS, Drexel – 6/1/2014-5/31/2017– N1415 – Awarded \$47,607:

Funding for this project will support the purpose of technical direction of grant performance. Funding will provide necessary personnel, facilities, equipment, materials and data to perform the work in accordance with its proposal.

School of Nursing, Health, and Exercise Science:

HOOVEN, Katie: Population Health Implementation Grant - 8/15/2015-9/14/2016 – PS: N1648 - Awarded \$198,627.00

TCNJ, with the clinical partnership of Hunterdon Health Care Systems, aim to develop knowledge, learning objects, and clinical experiences that will provide students with the learning opportunities needed to develop beginning competencies in practicing population-based health care.

LINDBERG, Claire: Sub for Lifespan- Antimicrobial Use in Dialysis Units (Dialysis Research Project)- 9/30/2014-9/29/2015-PS:F1516 -Awarded \$49,970.00:

Funding for this grant will allow weekly support and assistance with educational and behavioral interventions. Conduct educational sessions at the intervention sites. Assist and support behavioral intervention strategies.

School of Science:

Biology:

DICKINSON, Gary: ONR-Duke Subaward- Assessing the Effect of Environment on Barnacle Settlement, Adhesion, and Biomineralization-4/15/2014-4/14/2017-PS: F1432-Awarded \$284,612.69

Funding for this project will help reach the goal of the proposed work is to assess the impact of variations in salinity, pH and temperature on adhesion and biomineralization in the barnacle *Amphibalanus Amphitrite*. The PI, Dr. Gary H. Dickinson, will coordinate and supervise all aspects of this project. He will directly supervise 2-3 undergraduate students and a part-time technician funded by this project.

NAYAK, Sudhir: FIRSTS (Foundation for Increasing and Retaining STEM Students) Program: A bridge program to study the sociological development of science identities – NSF – 01/1/2016 – 12/31/2018 – PS#: - Awarded \$538,900.00

FIRSTS is an extended bridge program for incoming students from at-risk groups, which will increase student success using a developmental support system that extends into the academic year. The summer bridge program will consist of math and science skills development, remediation, and assessment, while the first semester will focus on refining writing skills. Importantly, this grant incorporates a sociological study to elucidate the reasons why some students persist in STEM majors while others elect to leave.

PEEL, Nina: NIH- How does loss of tubulin glutamylation cause ciliopathies? A genetic approach in *C. elegans* (Also titled: Deciphering how tubulin glutamylation regulates microtubule function)- 3/1/2015-2/28/2018-PI:F1556 Awarded \$214,444.00:

Funding for this project will help the research decipher how tubulin glutamylatin regulates microtubule function.

Physics:

KIRK, Taryl: MRI: Development of a Localized Field Emission Scanning Electron Microscope and Secondary Electron Spin Polarization Analysis System – 9/1/2015 – 08/31/2018 – PS: - Awarded \$994,365.00

Funding for this project serves to increase access to shared instrumentation for scientific and engineering research and research training for institutions of higher education by improving the quality and expanding the scope of research and research training in science and engineering.

Computer Science:

KNOX, Deborah: NSF-SURF Gaithersburg-5/1/2015-9/30/2015-PS: F1596- Awarded \$17,505.00:

Funding for this project will allow SURF students work for 11 weeks, contributing to an ongoing research project under the guidance of a NIST scientist or engineer from one of the institute's six laboratories. In addition, a summer-long lecture series exposes SURFers to a sampling of diverse research topics.

PULIMOOD, Monisha: Supplement for TUES: Collaborating Across Boundaries to Engage Undergraduates in Computational Thinking (FY12-15) – NSF – 2012-7/31/2015 – F1321 – Awarded \$26,000:

This grant supports the development of a model for students and faculty to collaborate across diverse disciplines and with a community organization to develop technology-based solutions to address complex “real-world” problems. The Bureau of Labor Statistics estimates that 1.4 million computing jobs will be added by 2018. Yet universities will produce fewer than half the candidates needed to fill these jobs. There continues to be a lack of motivation and interest among American youth to pursue careers in science, technology, engineering, and mathematics (STEM) fields. Our hypothesis is that to increase motivation toward, and interest in, computing careers, undergraduate students must be immersed in multidisciplinary collaborative experiences where they are creators of technology-based solutions, and where they internalize the relevance of and interconnectedness between classroom learning and the community they live in.

Mathematics:

HAGEDORN, Thomas: Scholarships for Success in Computational Science – NSF – 7/1/2014-6/30/2018 – F1527 – Awarded \$628,097:

This project at The College of New Jersey (TCNJ) improves mentoring and student support structures within the Departments of Computer Science, and Mathematics and Statistics. Dissemination of these results both within TCNJ and in the respective disciplines is leading to improved advising and mentoring practices by other departments and institutions. The project provides significant advising, mentoring, and tutoring services that supplement those already provided by the college. The project funds approximately 27 scholarships per year for computer science and mathematics students at TCNJ.

LIEBARS, Cathy: Woodrow Wilson Fellow Induction Plan – Woodrow Wilson Foundation – 8/1/15 – 7/16/2016 – PS # N1649 – Awarded \$14,710.00

The Fellow Induction Plan is a continuation of the Fellows' professional development as a STEM classroom teacher and professional educator working in high-need schools. In the first year of the three year program, the Fellow is expected to begin to move from novice teacher to veteran teacher with the support and guidance of an Induction Mentor.

OCHS, Michael: Modeling Transcriptional Reprogramming by Markov Chain Monte Carlo Sampling (Year 3 of 3) – NIH – 9/1/2014-8/31/2015 – F1462 – Awarded N/A:

The goal of this project is to integrate previous studies and data resources into a prior model on the effect of signaling on transcriptional reprogramming. The three aims are as follows: 1. Develop a model of signaling coupled to transcriptional reprogramming, 2. Develop a model of the effect of methylation on inference of transcriptional reprogramming, and 3. Develop a methodology to identify biomarkers for transcriptional reprogramming based on the MCMC models.

Physics:

NGUYEN, Anh-Tuan: Measuring Neuronal Activity and Functional Connectivity in an In Vitro Model of Traumatic Brain Injury – Department of the Army – 11/1/2014-7/31/2015 – PS: F1529 – Awarded \$50,000:

Mild traumatic brain injury (mTBI), or concussion, is a major health concern for military service men and women. Even without losing consciousness after injury, a patient may suffer deep physical, psychological, and emotional symptoms that may persist for weeks to months. With the funding of this grant, the PI will measure long-term changes in spontaneous activity and functional connectivity of a cultured neuronal network following induced injury. Identifying potential neural correlates may lead to the design of a sensitive method for early detection of mTBI and, more importantly, the possible identification of a therapeutic window for intervention in human patients.

WIITA, Paul: Collaborative Research (additional support) – NSF – 8/15/2013-7/31/2016 – F1436 – Awarded \$24,165:

This grant is a continuing grant which will help with the research funding and providing salary compensation for the research.

Facilities and Management:

Student Life:

Hadge, Joe: NJDHTS-2015 NJ Peer Institute-10/1/2014-9/30/2015-PS: F1550-Awarded \$73,746.00:

Funding for this project will help combat some of alcohol challenges on campus at TCNJ while empowering student leaders and advisors at additional colleges. Receiving this grant will allow the continuation of efforts to make a positive change for future students.