DR. STACEY FRANKLIN JONES

HIGHER EDUCATION SKILLS SUMMARY

- 15 years of higher education administrative positions at public and private institutions – chancellor, provost, dean, senior vice president, vice president, vice chair of research and innovation foundation, and academic department chair; 14 years as a mathematics, computer science and technology faculty – twice tenured, distinguished professor designation, and principal investigator of several grant awards from Department of Energy (DOE) and National Science Foundation (NSF).
- Advancement and fundraising of over $50M in federal, state, private donor, alumni and corporate support for science, technology, engineering and mathematics (STEM) programs, capital improvement allocation, student financial assistance and general institutional support; Staff on $1B capital campaign as American Council on Education (ACE) Fellow; Administrative responsibility for over $150M in grants and sponsored programs.
- Recognized expertise in institutional conceptual frameworks, regional and program accreditation – new and reaffirmation, institutional advancement – sponsored programs, institutional effectiveness, enrollment increase, program design and review, evaluation and assessment, curriculum development, international faculty-student exchange, faculty development, student leadership development, STEM awareness and career promotion, and campus information technology infrastructure renewal.

INDUSTRY SKILLS SUMMARY

- Research, state-of-the-art design, development, technical management and/or engineering support to the Department of Defense (DOD), Department of Transportation (DOT), National Security Agency (NSA), National Aeronautics and Space Administration (NASA), Department of Labor (DOL), National Institutes of Health (NIH), and Department of Homeland Security (DHS), and National Oceanic and Atmospheric Administration (NOAA).
- Extensive background in corporate partnership development and strategic management.
- Subject matter expertise in digital signal processing, embedded systems software engineering, broadband systems architecture, computer and computational science, defense offensive radar systems (beam steering control), voice and radio communications systems, and forward looking infrared – FLIR.
- Work in association with international, federal, and state governments - securing, reviewing, managing, overseeing, conducting research or rendering technical performance on over $100 million in proposals, grants, and contracts.

EXECUTIVE DEVELOPMENT

Center for Creative Leadership Leadership at the Peak

AASCU American Association of State Colleges and Universities New President's Academy

ACE American Council on Education ACE Fellow [*hosted at* Rensselaer Polytechnic Institute]

Hampton University Executive Leadership

Harvard Graduate School of Education Harvard Management Development Program

Spanish Abroad (Spring 2016)

EDUCATION

Doctor of Science, Computer Science — School of Engineering and Applied Sciences — *1997*
George Washington University — Washington, D. C.

Master of Science - Technical Management, *honors* — G.W.C. Whiting School of Engineering — *1991*
Master of Science - Numerical Science — G.W.C. Whiting School of Engineering — *1986*
Johns Hopkins University — Baltimore, MD

Bachelor of Science - Mathematics, *magna cum laude* — College of Arts and Sciences — *1982*
Howard University — Washington, DC.

PROFESSIONAL EXPERIENCE

Interim and Short Term Higher Education Administration [2010 – present]

Norfolk State University, Norfolk, VA [2016 – present]
Provost and Vice President for Academic Affairs, Interim [August 2016 – January 2018] President retired December 2017
Special Projects Assistant to the (new as of January 2018) Interim President [February 2018 – present]
Reporting to the President, and working with the deans and other direct reports, faculty, staff and student leadership: fostered the creation, advancement and implementation of the academic vision for the University. Responsibility for programmatic, $70M budget, and respective personnel duties associated with five (5) academic colleges and schools, honors college, library, institutional effectiveness, faculty development, information technology, sponsored programs and research; attracting and retaining a diverse faculty, staff and student body; stewardship of academic policies; and representing the University in the President's absence.

Accomplishments include

- Leading the collaborative design, development, advocacy and approval of the Green and Gold (G&G) Standard by the Faculty Senate, students, Board of Visitors, and Commonwealth of Virginia Op Six Committee members. The Green and Gold Standard emphasizes academics at the center, faculty-led initiatives, partnerships, leveraging strengths while embracing new ideas, producing graduates that are acutely aware as academics, innovation with impact, and spurring important campus and greater University community discussions. The G&G Standard also provides institutional definition of student success as performance, persistence and preparation with intentional engagement.
- Developing the University's approved Commonwealth of Virginia State Council of Higher Education (SCHEV) Six Year Plan (2017-2023) in accordance with the Virginia Higher Education Opportunity Act of 2011.
- Working with the City of Norfolk and the University's Research and Innovation Foundation, secured unanimous City Council support, acquired space, and established a blue print for a University research, tech transfer, and innovation hub in the center of downtown.
- Creating an Academic Engagement unit to improve student advising, promote academic formation and encourage faculty guided student pathways.
- Creating an Academic Effectiveness infrastructure to focus on university-wide assessment, SACSCOC reaffirmation readiness, and academic program accreditation. Additionally, in collaboration with the CIO, restructured Information Technology Services to effectively embark on a campus-wide business impact analysis.
- Teaching University Seminar Series 1 of 3 with over 1100 freshmen of the over 5300 total student body.
- Leading and serving as designated charter director of the interdisciplinary NSU Cybersecurity Complex consisting of faculty teams from psychology, sociology and computer science academic disciplines.
- Acting on the President's behalf during his extended medical leave.

Elizabeth City State University, Elizabeth City, NC (University of North Carolina System) [2014-2015]
Chancellor (and tenured Distinguished Professor designation) [September 2014 – December 2015]
During a pivotal period for the university, exercised executive authority and carried out policies to advance the institution which included management of $54.2 million budget, 450 faculty and staff, serving just under 2000 students.

Accomplishments include

- Securing over $7.4 million in special appropriations 'confidence' funding and $13 million of repair and renovation (R&R) allocation in state bond act;
- Achieving a clean state audit with a finding of *no* deficiencies in financial reporting or non-compliance with government reporting standards;
- Launching a $4.4 million campus technology infrastructure optimization;

- First time accreditation from the Accreditation Board for Engineering and Technology (ABET) – Bachelor of Science in Engineering Technology; reaffirmation from National Association of Schools of Music (NASM);
- Conversion of Admissions from manual intensive to a more efficient and error-reduced electronic enrollment. Achieved net positive enrollment for first time in University's recent five-year history with subsequent Fall new freshman increase of greater than 17%;
- Launching Chancellor's new campus monitoring and safety initiative yielding 75% reduction in sexual assault crimes; 100% reduction in robberies; 100% reduction in domestic violence; 50% reduction in dating violence; 82% reduction in alcohol offenses; 78% reduction in drug offenses and 22% overall incidents in residence halls;
- Infusing several technology-supported systems to improve insight into individual student progress, effective and timely intervention, and more efficient student financial transactions (OneCard);
- Enhancing student experience with new Chancellor-taught freshmen seminar that emphasized *Owning Your Success* and acquired new student mobile Movie Theater;
- Addition of secondary STEM school - Northeast Academy for Aerospace and Advanced Technologies (NEAAT) University campus – 120 students grades 6-8;
- Awarded several government and private philanthropic grants to support domestic and international STEM program initiatives totally over $3 million; and
- Recognition for lowered student default rate.

Senior Consultant and Advisor - Executive Management, Technology Partnerships and Corporate Development
[August 2011 - August 2014]

Provided leadership and senior consultation for strategic corporate direction, building Scientific and Technology Support Services core capability, and establishing partnership(s) with higher education scholars to provide technology innovation, research and analytical support, and other subject matter expertise to federal agencies.

Accomplishments include

- $900k Federal Agility and Management consult contract work to support Department of Labor (DOL) Bureau of Labor Statistics (BLS); and
- Multi-million dollar indefinite delivery indefinite quantity (IDIQ) Department of Health and Human Services (DHHS) prime contract award (value up to $35M) for Feasibility, Pilot and Evaluation Projects; design of corporate development dashboard for identifying and pursuing federal contracts; and design of corporate university student internship program.

University System of Maryland (USM), Adelphi, MD [2010 – 2011]
Special Assistant, USM System Office [December 2010 – June 2011]
Advised, and provided sponsored program and research guidance to USM faculty, Dean(s), and President(s) for strategic federal science, technology, engineering and mathematics (STEM), state congressional initiatives and retention.
Consultation to senior administrators and chancellor include

- faculty issues such as collective bargaining and voluntary separation options,
- institutional and financial planning, and
- effective student retention success assessment.

Accomplishments as USM Special Assistant include

- Development of model methodology and USM report on effectively assessing student retention success (ASRS) – by institution and collectively as a System – involving 90 faculty, administrators and students; and
- Mentoring USM institution faculty to successful $1M Department of Homeland Security (DHS) and National Science Foundation (NSF) new investigators grant awards.

Provost and Vice President for Academic Affairs, Bowie State University [July 2010 – November 2010]

Provided leadership for all matters related to academic programming and policy development for 18 departments, 25 undergraduate majors, 19 master's degree programs, two doctoral programs, and nine advanced certificate programs, serving 5,578 students. Included strategic planning, enrollment management, institutional effectiveness, sponsored programs, research and information technology;
Management responsibility for

- $47.4 million operating budget for the Division of Academic Affairs (which included the Division of Information Technology); and
- $28 million disbursement in federal, institutional and state student financial aid.

Accomplishments as Provost include

- Designed comprehensive institution-wide academic programs assessment plan, process, and timeline emphasizing cyclical review by Faculty Senate in preparation for successful Middle States accreditation reaffirmation;
- Formalized University's Course Redesign effort fully compliant with USM/National Center for Academic Transformation (NCAT) Course Redesign Initiative;
- Developed faculty equity and credentials audit system for all 400+ faculty;
- Completed institution's first USM approved Enrollment Management Plan which yielded 3% increase; and
- Achievement of commissioning goal of six (6) Second (2nd) Lieutenants - first since unit was independently organized in 2001; and secured commencement keynote by NASA Administrator.

Longer Term Higher Education Administration and Faculty [1997 – 2010]

Benedict College, Columbia, SC [*August 2000 – June 2010]*
Senior Vice President also serving as *Chair of the South Carolina Broadband Coalition* of CIOs from University of South Carolina, Clemson University, the Medical University of South Carolina, and other in-state public/private four-year+ institutions and community colleges.
SVP Management responsibility, leadership and oversight for

- Sponsored Programs and Research with development responsibility for sponsored programs and research portfolio of $28M - increasing new grants portfolio by more than 50% over two year period;
- Government and External Relations resulting in $2.5M of federal appropriations through U.S. Senate and House of Representatives during first leadership cycle;
- Benedict College Business Development Center addressing the economic and business development needs of small and minority businesses including advancing the number and strength, providing financial and technical support, growth training, reduction of overhead costs and offering vehicles to increase contract opportunities;
- Benedict-Allen Community Development Corporation a 501(c)(3) nonprofit organization promoting residential and commercial revitalization by providing resources for acquisition, renovation, and redevelopment of substandard properties and revitalization of commercial corridors utilizing a minority revolving loan fund; and
- Technology including first campus-wide infrastructure to perform research and development applications via high-speed wireless network.

Vice President, Institutional Effectiveness and Sponsored Programs [2008-2009]
Management responsibility, leadership and oversight for

- Institutional Research and Assessment with focus on 2011 Southern Association of Colleges and Schools (SACS) accreditation reaffirmation including Quality Enhancement Plan;
- Student Financial Aid and Scholarships departments resulting in a redesign of the student financial clearance process; reduced number of students requiring financial aid counter service by 36.4% and reached marked peak increase in clearance by 32.2 percentage points representing more than twice the number of students

cleared at the same strategic point during previous year. Also supervised clean independent financial aid audit and error-free Department of Higher Education computer audit;

- Management Information Systems (MIS) units and principal for campus wide technology design and deployment;
- Sponsored Programs increasing College's new grants portfolio by more than 61.7% when compared to the active grants total for previous year; and
- Overall responsibility for management of ~93% of College's revenue sources – tuition, federal and other student grants and loans, program/project contracts, and research grants.

Vice President, Sponsored Programs and Research [2007-2008] [Appointment overlapped with Deanship]
Management responsibility, leadership and oversight for

- Institution's sponsored programs and research portfolio along with government liaison responsibility for securing appropriations to support major initiatives. Government liaison activity involved local, state and national lawmakers yielding $1M commitment in first quarter of appointment;
- Securing medium to large sponsored program awards which includes consortium development and/or other partnerships greater than $5 million programs;
- Design and implementation of institution's first academic foreign exchange program with China involving two universities, 25 students and 3 faculty;
- Principal Investigation (PI) and/or authorized representation for 27 National Science Foundation, Department of Energy, National Institutes of Health, United States Military Academy (USMA) and other scientific research, academic program development and other infrastructure awards;
- Securing College's first congressional multimillion dollar earmark for science and technology infrastructure project;
- Design and development of the institution's first proposal development process leading to the marked increase in new grant awards; and
- Establishment of a divisional unit that provided institution-wide proposal development support and grant management services, which included faculty and staff proposal development training, guidance, assistance, review and approval; college-wide team coordination and facilitation in pursuit of sponsored programs opportunities.

Dean, School of Science, Technology, Engineering and Mathematics (STEM) [2002 – 2008]
Professor, Computer Science (tenured)
Management responsibility, leadership and oversight for

- Fifty (50) faculty and staff; $3.5M operating and $9.9M sponsored programs budget; 600 students spanning 11 programs of study in biology, chemistry, environmental health science, physics, physics-engineering, mathematics, computer science, computer engineering and electrical engineering disciplines;
- Nearly $10M in federal, corporate and alumni funds to support engineering and science program development, over 30,000 sq. ft. laboratory facility redesign and building renovation;
- Institutional and program accreditations achieved during tenure: National Environmental Health and Protection Council (EHAC), and National Council for Accreditation of Teacher Education (NCATE)/ National Council of Teachers of Mathematics (NCTM);
- Elevation of the physics program to multiple-year top-five national recognition by the American Institute of Physics (AIP) for bachelors of science degrees awarded to African Americans;
- State's first nationally accredited environmental health science program; and
- Design and establishment of institution's electrical and computer engineering programs, and respective engineering discipline integrated team (EDIT) approach to produce electrical and computer engineers.

Also served as

- Co-director of Broadband in the Cities and Towns, a regional initiative for access and optimization of technology in urban and rural areas in the South;
- Co-director of South Carolina Citizen's School of Nanotechnology, a community focused technology awareness program for adult learners;
- College's congressional liaison for special initiatives in science, technology and education;
- Special task assistant in the Office of the President as part of SACS four-person executive response team (President, Trustees Chairman, Dean and VP Institutional Effectiveness) and HBCU presidential initiatives contact; and
- Special task assistant in the Office of Senior Vice President for Academic Affairs for development of annual faculty evaluation guidelines and assessment process, faculty credentials audit management, chaired the Academic Computing Committee, and sponsored programs management.

President's Liaison for Strategic Communications and External Relations – ACE Fellow - Rensselaer Polytechnic Institute, Troy, NY [2005 – 2006 | ACE Class of 2006] [Appointment overlapped with Deanship]
ACE Fellowship assignment as

- President's liaison for and involvement in the establishment of a new Institute portfolio which combined the communications, government and community relations units functionality;
- Assistant for FY Performance Planning; prospective donor review, event planning and private meetings as part of $1B Renaissance at Rensselaer capitol campaign; and
- Assistant in development of proposal to address faculty engagement with the President.

Chair, Mathematics and Computer Science Department [2000 - 2002]
Associate Professor
Management responsibility, leadership and oversight for

- Twenty (20) faculty and staff, and 275 students spanning 4 programs of study in mathematics and computer science disciplines; with $1M operating budget;
- Reaffirmation of accreditation - Southern Association of Colleges and Schools (SACS), self-study in preparation for National Council for Accreditation of Teacher Education (NCATE)/ National Council of Teachers of Mathematics (NCTM); and
- Courses Redesigned: Digital Logic, Compiler Theory, Computer Organization and Architecture.

Research Scientist, Computer Science Department [1997 – 2002][Appointment overlapped with Associate Professor]
Research Scholar
Johns Hopkins University, Baltimore, MD

- Conducted computer science research funded by National Security Agency (NSA);
- Provided engineering education coordination for the establishment and operations of the Computer Integrated Surgical Systems and Technology (CISST) Center; and
- Course Design: Surgery for Engineers (course designed with medical faculty), Systems Programming Methods I & II; Other Courses Taught/Redesigned: Intro to Programming Java

Corporate Engineering and Technology [1982 – 1997]

Multimedia System Architect, Advanced Technology Management Consultant [1995 – 1997]
Xi Systems, Inc. Owings Mills, MD

- Designed and developed architectures for Analog/Digital Convergence systems, Computer-based Training Systems (Maryland Department of Transportation), Internet Protocol (IP) - Interactive Multimedia systems (State of Maryland), and Boule Information System (Baltimore Bi-annual National Conference), Alpha Kappa Alpha Sorority, Inc.

Director of Engineering [1993 – 1994]
Futron Corporation, Bethesda, MD

- Provided technical and administrative direction for Engineering Division consisting of 6 contracts, and 27 engineers and technology support personnel. Contracts represented a $3.2M budget generated by procurements with National Aeronautics and Space Administration (NASA) and Department of Transportation (DOT).

Northrop Grumman (formerly Westinghouse Electric Corporation, Electronic Systems Group) - Baltimore, MD
[1982 – 1993]

Commercial and Information Systems Division, Principal Engineer, Product Development Manager
Management responsibility and oversight for product design, development, budget, schedule and alpha testing for market introduction of Networked Optical Imaging Systems.

*Electronic Systems Group, Aerospace Division***
Requirements analysis, design, integration and test for the following systems:

Lead Systems/Senior Software Development Engineer
Fire Control Radar Modes (FCR)

Lead Systems Integration/Senior Software Engineer
Lightweight Electro-Optical Surveillance Forward Looking Infrared (LS FLIR)

Lead Systems/Senior Software Engineer B
Radar Sensor Interfaces (RSI/WPSP)

Lead Systems/Software Engineer
Voice and Radio Communications Control (RSA VRCS)

Associate Engineer
Phased Array Radar Antenna Control, AN/APQ-164 (B-1B)

***Work on DOD classified projects*
Clearances held: Department of Defense Secret, DOD Secret+Special Access Required (SAR)

Embedded Imaging Systems
Lightweight Surveillance FLIR, ATF YF22A & AN/APQ-164 Offensive Radar Systems, Voice & Radio Communications (VRCS), and Westinghouse Programmable Signal Array Processor

PROFESSIONAL SERVICE

Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Reaffirmation Visiting Team (October 2015)
"Infusing Innovation and Change in Higher Education" (July 2015)
"Infusing Technology in Higher Education" (July 2013)
presentations and mentorship sessions for the Leadership Mentoring Institute (LMI)
NCAA Division II President's Council
United States Department of Homeland Security (DHS), Science and Technology (S&T), Scientific Leadership Awards (SLA) Review Panelist
National Science Foundation (NSF) Merit Review Panelist
Centers for Research Excellence in Science and Technology (CREST)
Division of Undergraduate Education (DUE) Proposals
Computer Science, Engineering, and Mathematics Scholarships (CSEMS)
Louis Stokes Alliance for Minority Participation (LSAMP),

Historically Black Colleges and Universities – Research Infrastructure for Science and Engineering (HBCU-RISE)

Representative College &/or Universities Committees

SACS COC Visit for 2011 Reaccreditation - Leadership Team; Quality Enhance Plan (QEP) Committee Chair; Committee on Committees; College Convocations, Assemblies and Special Events Committee; Enrollment and Retention Committee; Honorary Degrees Committee; Information Technology Committee; Summer and Special Programs Advisory Committee; Curriculum Committee; Minority Biomedical Research Support Programs (MBRS) Advisory Committee; Research Infrastructure for Minority Institutions (RIMI) Advisory Committee; National Society of Black Engineers (NSBE) Chapter Advisor; Academic Affairs Council; Academic Affairs Dean's Council; Academic Affairs Expanded Council

National Conference of the Quality Education for Minorities (QEM) Mathematics, Science, and Engineering (MSE) Network Moderator

Mathematical Methods in Counterterrorism International Conference Host

Addison-Wesley Reviewer

Mathematics All Around

Using and Understanding Mathematics: A Quantitative Approach

South Carolina Alliance for Minority Participation (SC-AMP) Science Conference Judge

Technology Advisory to Essence Magazine (Y2K Article September Issue)

SELECTED SCHOLARLY WORKS AND PUBLICATIONS

Book Chapters

2008 T. ElAli, S. Jones, F. Arammash, J. Biotidara, T. Oluwafemi , "Analog Computer to Solve Third-Order Linear Differential Equation", a chapter in *Innovative Algorithms and Techniques in Automation, Industrial Electronics and Communications*, Springer, Germany, 2008

2007 T. ElAli, S. Jones. F. Arammash, C. Eason, A. Sopeju, A. Olorode, A. Fapohunda, "An Analog Computer to Solve Any Second Order Differential Equation with Arbitrary Coefficients", a chapter in *Innovative Algorithms and Techniques in Automation, Industrial Electronics and Communications*, Springer, Germany, 2007

Refereed Articles and Presentations

2016 Jones, S. F. "Perpetual Pods: Higher Education of STEM Students – Part II", International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'16) July 25-28, 2016, Las Vegas, NV, USA

2014 Jones, S. F. "Agile – Higher Educating STEM Students", International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'14) July 21-24, 2014, Las Vegas, NV, USA

2012 Jones, S. F. "A General Taxonomy For Visualization Of Predictive Social Media Analytics", Conference on Modeling, Simulation & Visualization Methods (MSV 2012), July 16-19, 2012, Las Vegas, NV, USA

2010 Hong Jiang, Stacey Jones, et al. " Wi-Fi-Vi: a Wireless Based Cloud Computing Platform ", CCV 2010 Cloud Computing and Virtualization, May 17 and 18 2010, Singapore Management University, Singapore

2009 Comert, G., Jones, S. F. "Analysis of queue length prediction from probe vehicles problem with bunch arrival headways", SOUTHEASTCON '09. IEEE, 5-8 March 2009, pp 392 – 397, Atlanta, GA

2007 T. ElAli, S. Jones, F. Arammash, J. Biotidara, T. Oluwafemi, " Analog Computer to Solve Third-Order Linear Differential Equation ", The International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering, December 10, 2007, University of Bridgeport

2006 T. ElAli, S. Jones, F. Arammash, C. Eason, A. Sopeju, A. Fapohunda, O. Olorode, "An Analog Computer To Solve Any Second Order Linear Differential Equation With Arbitrary

Coefficients", The International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering, December 10, 2006, University of Bridgeport

2007 Jinsuo Zhang, Stacey Jones, et al., Mobile Network Adaptation in the Ubidata Mobile File System, The International Journal of Computers and Applications, May 2007

2007 Jinsuo Zhang and Stacey Jones, uKey: A Unified Key Management and Authentication Automation Middleware for Heterogeneous System, Proceedings of IEEE Computer Society/ITNG, Las Vegas, Nevada, April 2007

2007 Jinsuo Zhang, Stacey Jones, et al., DPQ: using A Distributed Priority Queue to Improve Ad honc TCP Performance, Proceedings of IEEE Computer Society/ITNG, Las Vegas, Nevada, April 2007

2005 Songhui Zhu, Pei Yu, and Stacey Jones. An efficient computation method for Hopf bifurcation of high dimensional systems. Proceedings of IDETC/CIE 2005. Long Beach, California. Sept. 24-28, 2005.

2003 Ambasht, J., Jones, S. (2003), The Magic Square, National Academy of Sciences New Delhi, India, 2003 vol 73, A (II) pp 215-225

2003 Superville, C., Jones, S., Boyd J. (2003) , Quality Costing Models: A Review with Managerial Implications. *International Journal of Management,* BOURNEMOUTH, ENGLAND, 2003 vol 20, no 3, pp346-352

2003 Jones, S. (2003) Production of Minority PhDs in the Mathematical Sciences *2003 xSemanario,* Havana, Cuba

2003 Jones, S. (2003) Mathematics Performance Indicator Model *2003 Hawaii International Conference on Statistics,* Honolulu, HI

2002 Superville, C., Jones, S. (2002) , Costs of Quality Modeling: A Review and Analysis. *Proceedings of the International Conference on Industry, Engineering, and Management Systems,* Cocoa Beach, FL, March 11-13, 2002

2002 Jones, S (2002) Digital Systems Fundamental, Life Cycle Models, Engineering Management, Ethical and Societal Issues and E-Commerce, *Beijing Business and Technology University,* Beijing, China

2002 Jones, S. (2002). Logic and Analysis Fundamentals: Prerequisities for Closing the Digital Divide. *2002 National Association of African American Studies Conference,* Houston, TX

2002 Jones, S. (2002). Redesigning the Mathematics Instructional Environment to Improve Performance of African American Students. *2002 National Association of African American Studies Conference*, Houston, TX

Over 40 technical reports and deliverable documentation associated with classified federal, and non-classified federal and state contracts.

INTERNATIONAL EXPERIENCE

International scholarly travel and/or presentations in Johannesburg, Pretoria, and Cape Town, South Africa; Beijing, Dali, Shandong, Shanghai, Guizhou, and Fuzhou, China; Havana, Cuba and New Delhi, India.

TEACHING AREAS

Credentialed: Computer Science, Mathematics, Systems Engineering and Technical Management
Courses designed at Johns Hopkins University - 600.494 Systems Programming Methods I, 600.495 Systems Programming Methods II, Surgery for Engineers (with Johns Hopkins University Hospital faculty)
Curriculum designed at Benedict College - Computer Engineering, Electrical Engineering

ACADEMIC GRANTS

Principal Investigator (PI)

Department of Energy

National Nuclear Security Agency (NNSA) Infrastructure and research – advanced computing, nuclear plant study, radiation barriers, photocatalysis – Phase II $850k

Phase 1T-I IRSD – research and infrastructure $984k
Science and technology research and infrastructure – mobile computing, photocatalysis, antipathogenics, and radiation science $500k

National Science Foundation (NSF)
Connectivity between scientists, technologists, engineers and mathematicians $2.1M
STEM talent expansion program (STEP) $500k
MRI: Acquisition of a Solar Simulation Instrumentation and Components for Photocatalytic Studies^ $112k
Louis Stokes Alliance for Minority Participation (LSAMP) – South Carolina $100k
Undergraduate experiences and preparation for graduate studies in the mathematical sciences $75k
Alliance for the Production of African American PhDs in the Mathematical Sciences – w/University of Iowa $325k

United Negro College Fund (UNCF) – Oracle Corporation
Computing resources to develop Oracle Academic Program $275k

National Security Agency (NSA)
Cybermedia (Internet Research Bootcamp) $50k

United States Military Academy (USMA)
Graphing, Data Representation and Curve Fitting $5k

Sponsored Programs Officer, Representative, and/or Administrator for over $6M in National Institutes of Health (NIH), National Aeronautical and Space Administration (NASA), Association of Environmental Health Academic Programs, (AEHAP), South Carolina Commission on Higher Education (SCCHE), South Carolina Independent Colleges and Universities (SCICU), South Carolina Space Grant, U.S. Department of Defense (DoD), Xerox Corporation and other grants.
^Co-Principal Investigator

HONORS AND AWARDS

South Carolina Governor's Award for Excellence in Scientific Awareness
American Council on Education Fellow – Bush Foundation Grant Recipient
National Science Foundation Merit Review, RS, CREST, and CSEMS Panelist
National Society of Black Engineers – Outstanding Woman in Technology
the network Journal® 40 Under Forty Achievement Award
Westinghouse Research and Development Symposium - Rookie of the Year Award
Westinghouse Advanced Study Award
Westinghouse Defense and Electronic Systems Group Minority Communications Award of Excellence
Westinghouse Engineering Achievement Award

AFFILIATIONS (PREVIOUS AND/OR CURRENT)

Institute of Electrical and Electronics Engineers (IEEE) – Senior Member
Association for Computing Machinery (ACM) Member
Phi Delta Kappa Chapter (University of South Carolina 187) – President
National Association of African American Studies
National Association of Hispanic and Latinos Studies
National Association of Native American Studies
International Association of Asian Studies
Alpha Kappa Alpha Sorority, Incorporated

VOLUNTEER WORK AND COMMUNITY RELATIONS

Volunteer and service on boards for numerous programs promoting science, technology, engineering and mathematics, broadband initiatives, museums, "Girl" empowerment, and United Way in Washington, D.C., Maryland, South Carolina and North Carolina communities.