by its faculty, staff and students. One of the major emphasis of an institution of higher education is to attract research dollars to supplement decreasing state resources.

SC State University has made a concerted effort to make research a major part of its mission. Sponsored Programs activities at SC State have more than doubled from approximately $11M in 2000 to $34.9M in 2010-2011.

Our record of research achievement is growing. This growth requires the University to continue the expansion of its research infrastructure, thus reinforcing its support of faculty researchers by providing modern, hi-tech facilities and laboratories, in addition to strong administrative support and encouragement. The outstanding research achievements and productivity of our faculty are exemplified by the diversity and innovativeness of proposals submitted by our researchers to a wide range of federal, state, private and local institutions.

Research partnerships with other educational institutions, private sector corporations and federal agencies have provided extraordinary opportunities for forming unique collaborations to solve a broad spectrum of societal problems.

Therefore, I strongly encourage you to come by and visit the Office of Sponsored Programs. I charge you to continue to exceed the research challenges facing SC State.

Message from the Assistant Vice President

Welcome New Faculty Members

The staff in the Office of Sponsored Programs (OSP), Division of Research, Economic Development and Public Service welcomes the new faculty members joining SC State for the 2011-12 academic year. It is a pleasure to have your expertise as part of the university community.

SC State faculty members engage in a vast array of research and research-related educational activities that advance knowledge and support the teaching and service mission of the university. We understand that as new faculty members, attention to academic responsibilities, developing course syllabi and instructional materials for a full teaching course load, learning the campus systems to deliver instruction, student advisement and scheduling, serving on departmental, college and university wide committees, and “other duties as assigned”, feel as if there is little time for research. OSP would like to encourage you to put research on your slate early in your tenure so externally funded grant awards become a routine part of your career at SC State. We hope that you set membership in the Million $ Club as a goal and OSP is poised to assist you.

The OSP is established and specifically charged with the responsibility of assisting all facets of the University with the process of research. All proposals involving sponsored research and research-related educational activities are reviewed and approved by OSP prior to final approval by the President (or designee). We provide support services to all faculty and staff in the preparation of proposals to outside agencies from the conceptual stage through the post-award management and reporting process. We can assist you with finding the right grant opportunity for your research and research-related educational activity, development of the concept, coordinating collaborations with other institutions, submission of the grant application to the funding agency and through the many aspects of post award management and compliance once you have been funded. We exist to help you with your research endeavors, so please come to see us early and often in Belcher Hall, 4th Floor.

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“SC State has made a concerted effort to make research a major part of its mission”

“We hope that you set membership in the Million $ Club as a goal and OSP is poised to assist you.”
The National Sponsored Programs Administration Alliance (NSPAA) of HBCUs, Incorporated was established in December 1993 with the mission to aid Historically Black Colleges and Universities (HBCUs) in the efficiency and effectiveness of sponsored program administration. The organization provides technical assistance workshops, conferences, training and service activities, which have formed a collaborative sponsored research community of HBCUs that address and share particular needs facing HBCUs. A main goal of NSPAA is to gain visibility, and broaden its membership base within the HBCU sponsored research community.

Mr. Elbert R. Malone, Assistant Vice-President for Sponsored Programs at South Carolina State University, has been selected as the Interim President to lead the organization and continue its commitment of sharing information among members that encourages best practices, upcoming research initiatives, along with professional development opportunities. Mr. Malone is excited about the challenge to lead NSPAA, his first goal is to design a successful 2013 Annual Conference. At this conference, members along with government agencies and other stakeholders, will be invited to present and share their ideas that will allow HBCUs to remain competitive in the Sponsored Program arena. Government agencies will present the most current information on funding and research opportunities as well as technical assistance for preparing grant applications.

NSPAA is an enthusiastic organization, which recognizes the vital role that research administrators play in helping institutions of higher education secure external funding. It provides guidance and assistance to faculty and staff on current and upcoming opportunities. Membership is open to all individuals at HBCUs and new members are always welcomed.

The Nursing program at South Carolina State University, which is one of the highest producers of minority nurses, providing over $123,953.00 in scholarships to 37 deserving students this year. Dr. Perdue, also states that there is a rise in males pursing nursing degrees. The Nursing Department has developed and cultivated relationships with over 15 healthcare agencies in Orangeburg, Charleston, and Columbia, South Carolina to provide hands-on clinical opportunities for students. Affiliations with these agencies generate annual contract agreements that spell out the terms for student training. Mrs. Brenda Cobbs, Clinical Facilitator for the Program of Nursing (PON), said these contracts sometimes take a year to negotiate so that the students can participate in the various facilities.

According to Professor Stanley M. Harris, pediatric outreach programs provide opportunities for students to visit schools, witness stage development with adolescents, and administer immunization to youth. Professor Georgia Arnold says that in the Family Care Nursing Course, students provide pre and post maternity care for mothers and babies. Nursing students are visible in the communities, attending and participating in health fairs and public healthcare events. Some of the activities and events include: Walk-A-Thons, Relay for Life, Diabetic counseling, Mental health screenings, Well-child clinics, Home healthcare and caring for athletes at games. These clinical assignments provide students with an enormous amount of experience needed to compete and work in today’s healthcare industry.

Students participate in clinicals during weekday, evenings, and weekends. All clinical educational experiences are supervised by faculty members beginning with Fundamentals of Nursing which is taught by Professor Mary Wylie-Aquil. There are three skills that students must develop before they are considered competent beginning practitioners: safety, accountability, and communication. Applying the principle of safety can be as simple as identifying patients before administering medication and making sure that equipment is operable before using it on the patient. Accountability includes taking responsibility for professional decision making, embracing evidenced based practice guidelines, and using available knowledge to reduce patient errors. Communication with patients, co-workers and other health care employees is essential. Professor Charlene Pruitt said the nursing department is emphasizing interdisciplinary work in teams with facilitative communications servicing as a necessary component of a well functioning team. Classroom exercises and labs create learning teams to provide and help students to develop critical thinking and decision making skills to help them understand and process the order of service needed in a particular situation. Students are encouraged to not assume anything, but to always validate. Dr. Perdue states that these approaches to clinical learning has led to students increasing confidence in themselves and taking ownership of their emerging practice, participating in the Honors College and pursing higher education in the healthcare industry, in such fields as psychiatric mental health nursing, family health nursing, child health nursing, nurse anesthetist, nurse practitioners, acute care nursing, home health nursing, entrepreneur nursing, holistic nursing, nurse researchers, nurse educators, and healthcare administrators.

EDUCATING NURSES AT SC STATE

Dr. Bobbie Perdue, Director of Nursing, received a grant in the amount of $1.2 million from the U.S. Department of Health and Human Services in 2007. Funds from this grant provided an opportunity for the Nursing program to acquire simulation equipment models for the Nursing lab, so that students could gain hands on experience that mirror nursing care in hospital or health care facility.

With over 200 years of experience among the professors and clinical faculty in the department, the Nursing program is visible and excelling in all facets of healthcare across South Carolina. The SC State University is one of the highest producers of minority nurses, providing over $123,953.00 in scholarships to 37 deserving students this year. Dr. Perdue, also states that there is a rise in males pursing nursing degrees. The Nursing department has developed and cultivated relationships with over 15 healthcare agencies in Orangeburg, Charleston, and Columbia, South Carolina to provide hands-on clinical opportunities for students. Affiliations with these agencies generate annual contract agreements that spell out the terms for student training. Mrs. Brenda Cobbs, Clinical Facilitator for the Program of Nursing (PON), said these contracts sometimes take a year to negotiate so that the students can participate in the various facilities.

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Utilize program productivity data in monitoring current programs and in determining the need to modify, delete, or develop new programs in accordance with emerging trends in higher education.

Dr. Stanley states, every day we see more and more products that are being made with composite materials. These include bicycles, engines, automotive parts, tennis rackets, briefcases, airplane parts, and much more. The traditional material used in making most of these products in the past is steel. Steel is classified as an isotropic material, while composite materials are classified as anisotropic materials.

In a world of rapid technological innovation, manufacturing companies want to be able to do a quick analysis of prototypes before they commit large amount of resources to building or making the product(s). Digital manufacturing affords them that opportunity.

In Phase II of the project, Anderson and his team will focus on “Bridging the Gap” from secondary school to college. They will focus on students in elementary (fourth grade), middle, and high school, as well as provide professional development opportunities that will be afforded to them if they pursue any one of the STEM fields as a higher education discipline. As a part of the program, teachers will attend professional development workshops during the summer, and during the school year. STEM faculty will go to the schools to assist teachers as they provide instruction in STEM courses.

The overall goal of the HBCU-UP RISC program is to promote undergraduate research, provide academic assistance, improve faculty development, develop a curriculum that is innovative and descriptive enough to create a hands-on application for students, while enhancing the STEM program.

Listening to Dr. Stanley N. Ihekweuaz [Dr. Stanley], Interim Dean of the College of Science, Mathematics, and Engineering Technology, speak about the NANO project one would know how excited he is about digital manufacturing at SC State. This project receives funds from Clarkson Aerospace. Phase I of the project entails selecting NANO materials to create Carbon NANO tubes. The Carbon NANO tubes can be used during the fabrication of composite laminates. The resulting laminate is much stronger and can be used to design structures that are very strong with only a fraction of the weight of conventional materials such as steel.

Dr. Stanley states, every day we see more and more products that are being made with composite materials. These include bicycles, engines, automotive parts, tennis rackets, briefcases, airplane parts, and much more. The traditional material used in making most of these products in the past is steel. Steel is classified as an isotropic material, while composite materials are classified as anisotropic materials. In the case of steel, the properties are predictable. That is to say, regardless of what part of the steel you touch, the property is the same. To the contrary, the property of composite materials at different orientations are different. This feature makes it easier for engineers to manipulate the properties of composite materials. While composite materials possess several advantages over steel, they also have some disadvantages.

Phase II of Dr. Stanley’s grant is digital manufacturing. Digital Manufacturing has different names ranging from Rapid Prototyping, Additive manufacturing, Subtractive Manufacturing, Direct Part Manufacturing, 3D printers, and more. The process begins with a drawing that has been converted to a CAD file. This is the manufacturing process in which the part (product) being manufactured is built one layer at a time. The build material can be in a powder form or in the form of a polymer (plastic) that is fed through a heated head which melts and deposits the material on a build platform. The system that deposits or builds the part often looks like an oversized printer that we use for our PC.
Having the passion to do what you love everyday is amazing and certainly a dream come true. Dr. Judith Salley has been passionate about the Louis Stokes South Carolina Alliance for Minority Participation Program (LS-SCAMP) and assuring that students excel in the STEM fields for over 19 years. SC State has served as the lead institution for the past 10 years under Dr. Salley’s administration. LS-SCAMP is a national program producing over 25,000 underrepresented minority BS degrees in the areas of science, technology, engineering, and mathematics (STEM) annually. The program is funded by the National Science Foundation (NSF), and SC State has received a five-year $5 million grant to conduct program activities with 11 partner institutions. LS-SCAMP is a program that represents diversity and undergraduate excellence in STEM and its goal is to significantly increase the number of underrepresented minorities who receive baccalaureate degrees in STEM fields. Currently, the program produces 71% of the state of South Carolina’s minority STEM bachelor’s degrees.

At SC State, students enter the program in a summer bridge program offered for incoming freshmen who plan to major in a STEM discipline. The six week scholars’ institute engages participants in intensive academic courses, while providing acclimation to University Life. “Students that enter the summer institute are thrust into an Academic Boot Camp”, said Dr. Salley that allows them to earn up to seven credits in calculus and computer science courses. Collaborative learning is the cornerstone of the institute and the other vital keys to student success are academic advisement, intrusive mentoring, time management and study skills and social integration. At the successful completion of the summer bridge program, students participate in the program for four years and are provided a wealth of opportunities to conduct research, attend conferences, and interact research scientists in various STEM disciplines. The strategies are to strengthen undergraduate research with emphasis on collaborations with research centers, national laboratories and business industry partnerships. Undergraduates are encouraged to participate in three, eight-week summer research experiences either on campus or off campus in national laboratories or research intensive institutions. All student researchers are required to present research findings at the LS-SCAMP Annual Undergraduate Science and Engineering Research Conference, the culminating event of the summer research program. The future goal of the research program is to expand research opportunities internationally.

Balance is also a key element to student success and retention in STEM. LS-SCAMP is not all hard work and no play. Dr. Salley and her staff have created an environment that allows undergraduate students especially freshmen, to bond and interact with faculty and staff as well as other students in the program. LS-SCAMP has a drop-in-center where students share ideas and network in a relaxed atmosphere. Students develop leadership skills and learn how to set priorities that help them survive the college years.

The LS-SCAMP model has been extremely successful in the College of Science Mathematics, Engineering and Technology for 19 years. Student recruitment, enrollment, retention and graduation rates have all been positively impacted by LS-SCAMP. Dr. Salley’s goal is to duplicate the SCAMP model in academic programs across the university. Dr. Salley states, “SCAMP can be a model for all disciplines, by setting high standards, providing students with a nurturing and caring environment, timely advisement, intrusive mentoring, tutoring, and essential academic tools like time management and study skills. All students who enter this great university can graduate and become global leaders who make outstanding contributions to society.”

TRIO: Preparing First Generation Students for College

The SC State TRIO Pre-College Access Programs of Educational Talent Search (ETS), Upward Bound Math and Science (UBMS), and Gaining Early Awareness and Readiness for Undergraduate Programs (GEAR UP), hosted its first Annual College Fair on SC State’s campus, March 26, 2011. Nineteen distinguished colleges/universities interacted with over 150 high school juniors and seniors from eligible Trio partnered high schools. SC State Trio Partner schools include: Allendale-Fairfax High School, Blackville- Hilda High School, Burke Middle-High School, Denmark-Olar High School, Lake Marion High School, Manning High School and Scott’s Branch High School. The Second Annual College Fair was held on SC State campus on February 25, 2012. According to Larrie Butler, Director of Trio Programs at SC State, this initiative is one of many pre-college experiences that Trio Programs endeavor to provide for first generation, low income eligible students.

TRIO: First College Fair at SC State
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**Funding Opportunities**

**Mathematical Biology**

National Science Foundation

**Deadline:** November 15, 2012  
**Award Amount:**

http://www07.grants.gov/search/search.do;jsessionid=7yJ8P7WpxKgHpMSQ13sTG6Gpt9TrqFxvpVKhnm52xmZCqCyjyGilIL91791427?oppId=170641&mode=VIEW

**Environmental Education Regional Grants**

Environmental Protection Agency

**Deadline Date:** November 21, 2012  
**Award Amount:** $216,000


**Office of Elementary & Secondary Education:** Overview Information: teacher Incentive Fund Program-Recovery Act (ARRA)

**Deadline:** Not Determined  
**Award Amount:** $13,000,000

http://www.grants.gov/search/search.do;jsessionid=KGlqLQ8G5s2vqPzLh8LxXCVMMrThRTQLJvQShpMQzyq5LsJjNm5hC!1-2126388778?oppId=45890&mode=VIEW
The Division of Research & Economic Development

Office of Sponsored Programs

CONGRATULATES

“Million Dollar Award Awardees 2010-2011”

Leonard McIntyre, Ph.D. $4,666,400
College of Education, Humanities & Social Sciences (CEHSS)
U.S. AID (US Aid for International Development)
U.S. Department of Education

Gloria Pyles $4,179,514
Administration, Title III
U.S. Department of Education

Reinhardt Brown, Ed.D. $1,857,500
James E. Clyburn University Transportation Center (JEUTC)
U.S. Dept. of Transportation/Federal Highway Administration/U.S. Department of Energy/National Nuclear Security Administration (NNSA)

Judith Salley-Guydon, Ph.D. $1,288,727
College of Science, Mathematics, & Engineering Technology (CSMET)
National Science Foundation/National Institute of Health

Joann Owens $1,188,396
Administration, Title III
U.S. Department of Education

Dean Kenneth Lewis, Ph.D. $1,119,103
College of Science, Mathematics, & Engineering Technology (CSMET)
U.S. Department of Education, SC Research Authority (SCRA), U.S. Nuclear Regulatory Commission, U.S. Department of Energy (DOE), National Nuclear Security Administration (NNSA), SC Universities Research and Education Foundation (SCUREF), and U.S. Department of Energy University of Tennessee

Larrrie Butler $1,058,108
1890 Research and Extension
U.S. Department of Education

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www.scsu.edu/osp

The OSP Review is a quarterly publication that highlights faculty and staff sponsored research and projects. We invite you to share your research and success stories with OSP. Visit our website for additional information and to view pictures from the articles that were not included in this publication.

Funding for this publication is provided by Title III.