

## 2015-2016 SRAP Projects

Project #	Project Supervisor	Department	email	Project Title	Project Description
1	Maritza Pitelli	Accessibility Services; Counseling Center; SAEM	mpitelli@westga.edu	Student Anchors	Funding to support two student Anchors who will be employed to assist students with disabilities. The objectives of this program include increasing the academic and extra-curricular success of students with disabilities as they navigate barriers to access, while simultaneously providing the SRAP students with an opportunity to engage in a cognitive apprenticeship focusing on problem solving, advocacy, human service work and the development of technological skills in applying assistive technology for students with disabilities at the University of West Georgia.
2	Ashley Smallwood	Anthropology	ashleys@westga.edu	Exploring Archaic Period Technological Organization	This project will offer an anthropology major valuable experience in research design, comparative artifact analysis, hypothesis testing, and professional reporting and presentation of results. Specifically, a student will analyze and compare formal stone dart points dating to the <u>prehistoric Native American period known as the Archaic period (dating approximately 8,000-3,000 years ago)</u> from <u>the archaeological site 9RI381</u> to dart points from other nearby sites.
3	Ashley Smallwood	Anthropology	ashleys@westga.edu	Waring Archaeology Education and Public Outreach Program	The proposed project will provide a student with the continued research opportunity to serve as the student representative of the Educational Outreach Program for the Antonio J. Waring, Jr. Archaeological Laboratory. This program is designed to promote outreach and education initiatives that teach the public about the disciplines of archaeology and museum studies and the importance of <u>preserving Georgia's cultural heritage.</u>

2015-2016 SRAP Projects

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4	Stephanie Smith	Art	slsmith@westga.edu	Sculpture on Campus Tour Development	The Sculpture on Campus Program benefits the students, faculty, staff, and anyone who steps foot on the University of West Georgia campus. This program seeks to engage and challenge audiences with the presentation of stimulating rotating exhibitions of high quality outdoor sculpture. The programs strives to be a resource and teaching tool for students and faculty as an extended classroom while providing outreach to the local and regional community.
5	Stephanie Smith	Art	slsmith@westga.edu	Gallery Assistant	The mission of the University of West Georgia Galleries includes enriching the educational and cultural lives of the community by engaging and challenging audiences with the presentation of stimulating exhibitions of exceptional high quality. The UWG Galleries serve as a resource tool for students and faculty while providing outreach to the local and regional community.
6	Mark Schoon & Casey	Art	mschoon@westga.edu & cmcguire@westga.edu	The Great Moon Hoax, Recreation of the Artificial	This application seeks to establish funds for a Student Research Technician with responsibilities directly related to the researching, testing, and production of three-dimensional sculptures/models and two-dimensional photographic prints. The student will work with faculty members to prepare facilities and materials for the production of art objects and images related to a project entitled The Great Moon Hoax.

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7	Debrah Santini	Art	dsantini@westga.edu	Printmakers' Studio Assistant	As the department of art grows the breadth of the printmaking area also grows. The printmaking facility is capable of printing all traditional printmaking methods including the incorporation of digital technology. Traditionally, printmaking makes use of petroleum based products and noxious solvents.
8	Gwen Davidson	Art	gdavidso@westga.edu	Digital Collections Project for Visual Resources	The ability to display and share visual material is essential to the Department of Art's curriculum. In support of this need, Art's Visual Resources Center holds a collection of over 40,000 digital images. The collection encompasses a wealth of culturally rich, high resolution images not readily available on UWG's or other online resources but crucial for student learning.
9	Yvette Garner	Biology	ygarner@westga.edu	Development of Human Anatomy and Physiology Labs at the UWG Newnan Campus	The University of West Georgia's Newnan campus will be offering Human Anatomy and Physiology I & II Labs in their new facilities starting in the 2015-2016 academic year. The labs have not been taught there in the past, therefore new laboratory materials (microscopes, microscope slides, anatomical models, information cards, biological specimens for dissection, etc.) will need to be purchased, received, organized, and the space will need to be prepared for the fall and spring semesters as part of this two semester course taken primarily by pre-nursing majors.

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10	Mautusi Mitra	Biology	mmitra@westga.edu	Molecular characterization of two novel <i>Chlamydomonas reinhardtii</i> (a model green micro-alga) light sensitive-mutants defective in photosynthesis	Photo-autotrophic growth under different light irradiances is modulated by a complex interplay that involves various physiological processes. These processes are: photosynthesis, carbon concentrating mechanisms (CCM), mitochondrial respiration, photosynthetic pigment biosynthesis and various photo-acclimatory and photo-protective processes.
11	Janet Genz	Biology	jgenz@westga.edu	Dietary and energetic requirements of a threatened fish species, <i>Acipenser fulvescens</i>	Lake sturgeon ( <i>Acipenser fulvescens</i> ) are a threatened species in Georgia. While these fish were found at relatively high densities in the Tennessee and Coosa river systems in the early 20 <sup>th</sup> century, anthropogenic impacts to the physical system through the construction of dams and canals, and by directed catch has extensively reduced the current abundance of animals in these populations (Fig. 1).
12	Andrew Edelman	Biology	aedelman@westga.edu	Response of mammals to fire-based restoration of montane longleaf pine	Montane longleaf pine forests of the southeastern U.S. are a unique fire-adapted ecosystem. Due to land use changes and fire suppression, however, this ecosystem only occupies a small fraction of its historic range. Longleaf pine forests require low-intensity fires every 1-3 years to maintain their <u>open, park-like savannahs</u> .
13	Martin McPhail	Chemistry	martinmcphail86@gmail.	Kinetics of Lead Sulfide Quantum Dot Nucleation and Growth	Quantum dots (QDs) are nanoparticles with a semiconductor core—typically 2 to 10 nm in radius—surrounded by a ligand shell that stabilizes the surface and solubilizes the particle. At these sizes, semiconductors have a size-tunable bandgap due to quantum confinement of the exciton.

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14	Victoria Geisler	Chemistry	vgeisler@westga.edu	Research Assistant to Study Mechanism of Antioxidant Activity of Phenols	Directing undergraduate research is one of the most rewarding and challenging aspects of my job as a science educator. In the past five year, I have been involved with mentoring 24 students in various research projects, many of these students were funded with SRAP funds. . I request funds from the SRAP committee to support two students to study the mechanism of antioxidant activity of phenols using NMR spectroscopy.
15	Spencer Slattery	Chemistry	sslatt@westga.edu	Design & Study of Novel Molecular Systems that Behave as Molecular Switches, via Reversible Electronic Properties	The aim of this proposal is to acquire and utilize continued support from SRAP funding for an undergraduate chemistry student who is interested with working on the synthesis and investigation of novel molecular systems. Preparation of these molecular systems involve nontrivial synthetic steps where the initial steps deal with the synthesis, purification and characterization of novel organic molecules.
16	Sharmistha Basu-Dutt	Chemistry	sbdutt@westga.edu	Carbon Nanotubes & Azo Dye Interactions Using Raman Spectroscopy	The emerging field of nanotechnology is leading to a technological revolution in the new millennium with a profound impact on all sectors of the global economy including electronics, energy, environment, medicine and consumer goods. <sup>1</sup>
17	Partha Ray	Chemistry	psray@westga.edu	Studies Towards the Synthesis of a Potential Anti-cancer Agent	The project involves development of synthetic methodology to a folic acid-based molecule, which we have designed to act as an inhibitor of an enzyme critical for the biosynthesis of DNA. It is expected that this molecule will be an effective anti-cancer agent.

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18	Megumi Fujita	Chemistry	mfujita@westga.edu	Indole-pyridine couples as metal ion sensors	The goal of this project is to synthesize new colorimetric metal ion sensors using indole as a metal ion sensing group. Indole (Figure 1a) is an aromatic heterocyclic compound that is found in many biologically important compounds (such as tryptophan, one of essential amino acids, and a neurotransmitter serotonin).
19	John Hansen	Chemistry	jhansen@westga.edu	Viscosity Coupling to Reaction Dynamics in Supercooled Solutions	This study will investigate the role that solvent reorganization has on the progression of a chemical reaction. The solvent plays a vital role in a reaction, stabilizing reactant, product as well as any transient intermediates that form during the course of a reaction. The course and rate of a chemical reaction is affected by the solvent's speed to reorganize during the reaction.
20	Farooq A. Khan	Chemistry	fkhan@westga.edu	A mass spectrometric study of the binding of metal ions and anions to the antibiotic beauvericin	Throughout my stay at West Georgia, an important component of my endeavors has been faculty directed undergraduate research. I was a recipient of SRAP awards over the past eight years, which supported the work of undergraduate students who carried out research on the solubility of carbon nanotubes and the binding of metal ions to crown ethers and cyclic antibiotics.

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21	Anne Gaquere	Chemistry	agaquere@westga.edu	The chemistry of dyeing with natural dyes and the photo ageing process	For the past several years I have been interested in researching the chemical identity of pigments in paintings. I have also worked on identifying paint binders and fatty acids that may be present in various binders. As these projects funded by an external grant are ending and as the external grant recently expired, I am seeking funds internally to start a new project.
22	Li Yang and Mary Hooper	Computer Science & Educational Leadership and Instruction	lyang@westga.edu; mhooper@westga.edu	Development of the ULead 360° Online Administration Reporting System	This proposal requests for continuation of funding on an ongoing research project in the development of an online assessment administration web application for ULead West Georgia, a research and development initiative in the College of Education. This project is a joint effort between professors in the Department of Computer Science and Department of Leadership and Instruction.
23	Amber Smallwood	COSS	amksmall@westga.edu	State of Community: Reporting and Archiving Vital Community Information and Statistics for the West Georgia Region	The College of Social Sciences is partnering with the Community Foundation of West Georgia (CFWG) to create an annual event—“State of Community” tentatively scheduled for February 2016. The idea began through conversation with Kim Jones, CFWG President, Melanie McClellan, UWG Community Engagement, and faculty and administrators in the College of Social Sciences.

2015-2016 SRAP Projects

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24	Kim Holder	Economics	kholder@westga.edu	Developing Differentiated Digital Media for Economic Education	The primary role of the student research assistant(s) will be to continue work on a newly developed searchable database of current media examples gathered over the past five years. In addition, the student will take a lead role in creating unique explanatory videos which will connect the economic concepts with the original media.
25	Hilde Patron	Economics	hpatron@westga.edu	Center for Business and Economics Research Forecast Breakfast and Website Design	The Center for Business and Economics Research (CBER) conducts research that helps the West Georgia Community. In the past, the CBER has partnered with Georgia Power, Cancer Treatment Centers of America, Williams Pipeline Company, and Carroll Tomorrow, among others, to study the impact of various projects in our community.
26	Bertha Adriana D'Alba	Educational Technologies and Foundations	adalba@westga.edu	Development and assessment of educational 3dimensional virtual environments and wearable devices for learning	There are two current research projects where the research assistant would be extremely helpful: The first one involves the creation and utilization of a 3dimensional online environment for learning. This environment will be utilized to study student and teacher presence and interaction in online courses offered in the Department of Educational Technologies and Foundations.



2015-2016 SRAP Projects

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27	Yan Yang	Educational Technology & Foundations	yyang@westga.edu	Achievement Goals in Multicultural Teacher Education	To help close the gap between the homogenous teaching force and increasingly diverse student population, teachers and teacher candidates must acquire multicultural teaching competence (MTC) to be effective in the classroom. The purpose of this project is to address this gap by examining multicultural education from a motivational perspective.
28	Thomas Peterson	Educational Technology & Foundations	tpeters@westga.edu	SPARK	One of the great challenges for veteran teachers and administrators is how to respond effectively to students whose classroom behavior they find disruptive, disrespectful, irritating, annoying, and a serious threat to classroom etiquette. Most educators find these discretely labeled students to be a threat upon their entering the classroom and arm themselves as best they can in a win/lose conflict of wills.
29	Danilo Baylen	Educational Technology & Foundations	dbaylen@westga.edu	Rediscovering Visual and Media Literacy Research and Practice	This proposal seeks funds to hire an undergraduate student to play a significant role in a research project focus on understanding visual and media literacy. The research project involves the use of peer reviewed articles containing visual and media literacy content as data for analysis.
30	Carl Westine	Educational Technology & Foundations	cwestine@westga.edu	Mixed Methods in the Evaluation Context	Although often not cited, mixed methods research has existed in various forms dating back to the mid-1800s in disciplines such as geology, medicine, and the social sciences (Maxwell, in press). These studies were not typically called mixed methods, though they utilized both quantitative and qualitative research in an integrated way.

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31	Lisa Crafton and David Newton	English	lcrafton@westga.edu and dnewton@westga.edu	The Department of English at UWG: Creating a Department Institutional History and Digital Archive	Over the past 20 years, the Department of English has expanded and changed dramatically as it has sought to meet the programmatic and curricular challenges of a new emerging regional comprehensive university. While these changes have increased the number of faculty and staff who work in the department and expanded the number of academic programs that the department offers to students from across the university, the department remains rooted in a history of instructional and administrative excellence that extends back over the course of many decades.
32	David Bush	Geosciences	dbush@westga.edu	Coastal-Zone Hazard Mapping, Puerto Rico	After Hurricane Hugo (1989), coastal-zone hazard maps were made covering the eastern portion of Puerto Rico, the area most severely impacted by the storm (Bush et al., 1996). The mapping strategy was to develop a tool for quick visualization of multiple hazards for use by coastal planners, managers, property owners, and potential property owners.
33	Christopher Berg	Geosciences	cberg@westga.edu	Student Assistants in the West Georgia Microscopy Center: Development, Application, Teaching, and Training Opportunities for STEM Majors	The Scanning Electron Microscope (SEM) instrumentation housed in the West Georgia Microscopy Center (WGMC) has been a research and teaching workhorse since its installation in the Department of Geosciences in 2002. This instrument is used to obtain images of spatial relationships and textures, as well as analyses of chemical compositions and chemical gradients, within a wide variety of materials.

2015-2016 SRAP Projects

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34	Ann McCleary	History / Center for	amcclear@westga.edu	West Georgia Textile Heritage Trail Interpretive Exhibits	The Center for Public History requests funding for an undergraduate research assistant to work with the West Georgia Textile Heritage Trail. We are requesting funds for one student research assistant to participate in this project for ten hours per week over both the fall and spring semesters of the 2014-5 academic years.
35	Sandra Robbins	Learning & Teaching	srobbins@westga.edu	Early Intervention for Children with and At Risk for Developmental Delays and Disabilities	The purpose of this proposal is to request two undergraduate research assistants for two concurrent research projects that will be in progress during the 2015-2016 academic year. The first project is an ongoing project being conducted in collaboration with the YMCA Early Childhood Development Co, LLC, Head Start, and Early Head Start.
36	Jessica Bucholz	Learning & Teaching	jrbucholz@westga.edu	LIFE: Learning Independence and Fostering Employment	The purpose of this proposal is to request two student assistants to participate in an inclusive education program that will take place during the 2015-2016 academic year. Project LIFE is an inclusive dual-enrollment program that is being created in cooperation with the Haralson County School District.
37	Katy B. Green	Learning & Teaching	kbgreen@westga.edu	: iCARE: Instruction of children at risk or with exceptionalities	The project requesting one student assistant is a UWG partnership with a metro Atlanta Head Start agency. This partnership began October 2014. The UWG faculty team serves two Head Start sites in Metro Atlanta. These two sites have a total of 40 teachers and approximately 500 students, ages three to five.

2015-2016 SRAP Projects

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38	Cindy Smith	Learning & Teaching	cindys@westga.edu	College of Education Writing Center Project	The College of Education Writing Center operates as a satellite location of the University Writing Center, and provides support for any COE student's writing assignments on an appointment basis. The proposed student assistant would receive extensive training as a peer tutor in a supervised setting as well training and experience in data collection and analysis.
39	Soo Jung Moon	Mass Communication	smoon@westga.edu	Social Media and Informed Citizenship: Effects of Social Media Use, News Attention, and Issue Importance on Civic Engagement	This project will examine the relationship between social media use and civic engagement and seek to explain some of the reasons that underlie the correlation by relying upon theories in media effects and social psychology.
40	Sonya Barnes	Mass Communications	sbarnes@westga.edu	Multimedia Research Journalist	The Multimedia Research Journalist will produce educational and informative programs for multiple platforms that will highlight the University of West Georgia's strategic imperatives. Through thorough research, the Multimedia Research Journalist will produce programs for broadcast in addition to using multiple platforms including blogs, promotional material, website copy, and interviews, as well as composing Twitter posts and Facebook updates to showcase student success, partnership success, academic success and operational success to heighten the visibility of the University of West Georgia.

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41	Shawn Isaacs	Mass Communications	sisaacs@westga.edu	Radio Lab Supervisor/News Director	The radio production classes that utilize the lab will supplement The WOLF Internet Radio. The WOLF Internet Radio is an experiential learning lab of the Department of Mass Communication. The WOLF, which operates as a fully functional professional radio station, primarily provides students majoring and minoring in Mass Communications practical training in radio programming, production management, and promotions.
42	Nicholas Sterling	Physics	nsterlin@westga.edu	The Chemical Composition of Astrophysical Nebulae	Shortly after the Big Bang, the Universe was composed of only hydrogen, helium, and an extremely small amount of lithium. The Universe's composition has evolved in the subsequent 13.8 billion years, and now includes approximately 2% heavy element atoms, including the carbon that makes up the cells in our bodies, the nitrogen and oxygen in the air we breathe, and the metals in Earth's crust.
43	Ajith DeSilva	Physis	ldesilva@westga.edu	Study of Organic and Inorganic nanostructures for Device Applications	Organic and Inorganic nano-particles received much attention in recent times due to their superior luminescence properties and broader technological applications. In addition to their small size, a major challenge in developing practical devices using these nano-particles is the difficulty of introducing them into device structures. In this project, the Cadmium Selenide (CdSe) Quantum Dots (QD) sample was synthesized by employing a wet chemical and UV photolithography methods.

2015-2016 SRAP Projects

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44	Tugce Kurtis	Psychology	tkurtis@westga.edu	Social and Cultural Psychology Research Group (Phase 2)	Undergraduate research assistants will work as part of a research team in the Department of Psychology. Undergraduate research assistants will have the opportunity to participate in two ongoing programs of research conducted by the faculty supervisor.
45	Winston Tripp	Sociology	wtripp@westga.edu	Student Research Assistant in the COSS Data Analysis and Visualization Lab	There is a need to improve statistical literacy among students within the College of Social Sciences through the incorporation of inquiry-based and data-driven research projects into the curriculum, as well as a need among organizations in the broader West Georgia community for assistance with data analysis projects.
46	Shelly Elman	Theatre	relman@westga.edu	UWG Theatre Marketing Assistant	The best way to recruit audiences to theatrical productions is to have a strong and organized marketing plan. The best way to train students in theatre marketing is to have them create and follow this marketing plan under the supervision of experienced faculty members.
47	Jake Harbour	Theatre	jharbour@westga.edu	Scene Shop Foreperson	The Theatre department would like to propose a renewal of funding for the Scene Shop Foreperson for the 2015-2016 academic year. This position is has become very important to our department and plays a significant role in the advancement of our program, as well as the future career of the student who fulfills this role.