

# SCICU Student/Faculty Research Program

Initially developed in 1995, the SCICU Undergraduate Student/Faculty Research Program increases research opportunities for undergraduate students attending SCICU member institutions. Participating students develop the skills for professional opportunities that are both scientific in nature and are the benchmarks of every highly-qualified professional. A total of 34 research proposals involving 41 students from 12 SCICU member institutions were awarded research grants of totalling \$90,000 in the spring of 2016. Project research will conclude in December 2016. Student researchers will present their findings at the Research Symposium on February 23, 2017 at Milliken Innovation Center in Spartanburg, S.C. Listed below are the students, faculty sponsors, and the project titles for the research projects selected for funding.

INSTITUTION	STUDENT(S)	FACULTY SPONSOR(S)	RESEARCH TOPIC
Anderson University	Hannah Dille, Jonathan Lowe	Prager, Ivankovic	Utilization of Ordinary Differential Equations to Model Breast Cancer Tumor Growth
Charleston Southern University	William Hunnell, Connor Brown	Shields	Building Blocks and Coloring Away Stress
Charleston Southern University	Cassidy Richmond	Dawson	Matroids and Buildings
Clafin University.	Amori Washington	Wheeler	Audre Lorde's Afro-German Influence and Global Legacy in 2016
Coker College	Sydney Gaster	Brown	Do Small Fluoroorganic Compounds Form Hydrogen Bonds?
Coker College	Jaime Herring	Hauptfleisch, Avanzato	The Antimicrobial Molecules Found Within Kalmia Latifolia
Coker College	George Green IV	Avanzato, Flaherty	Characterization of the Bacterial Populations Associated With A Locally Produced Aerated Compost Tea
Coker College	Kendra Lambert, Calvin Blaschke	Flaherty	Characterization of Three Gene-Targeted Mutants in the Fungal Pathogen Fusarium Graminearum
Coker College	Alston Singletary	Knight	Shakespeare and Renaissance Art
Columbia College	Peyton Lee, Anna Outlaw	Marsh	Examining the Environmental Impact of the 1,000-Year Flood on the Estuarine Fish Fundulus heteroclitus
Columbia College	Michaela McElveen, Michelle Troup	Marsh	The Correlation Between Environmental Hydrocarbon Contamination and Parasitic Infection in Fundulus heteroclitus
Columbia College	Lucia Koh, Samantha Cely	Wachsmann-Linnan	South Korean and American Film: How Culture Creates Film and Film Creates Culture
Converse College	Nicole Lidzbarski	Steele, Brotherton	Investigating the Toxicity of a Medically Important Herbicide 2,4-Dichlorophenoxyacetic Acid (2,4-D) Using Earthworm as a Model System
Converse College	Marley Felthousen	LePage	An Accelerometer-Based Intervention Program to Increase Physical Activity and Body Satisfaction in College Females
Converse College	Alexia Brianne Barton	McCoy	Generational Differences in Perceptions of What Causes Gun Violence
Converse College	Emma Woolbright	Templeton	Dorothy L. Sayers: Feminist and Crime Novelist
Furman University	Sydney Wright	Kuklinski	Measuring Changes in Neurotransmitter Levels Caused by Drugs of Abuse in Non-Mammalian Systems
Furman University	Ansley Ulmer	Turgeon	Comparison of Changes in Mixed Cell Cultures and Explanted Tissues Following a Spinal Cord Injury
Furman University	Grace McCartha	Pollard	Mapping the Extent of Nickel Hyperaccumulation in Neotropical Species of Psychotria
Furman University	Grant Murphy	Roark	Assessing the Estrogenic Chemical Production of Aiptasia pallida sea
Furman University	Michael Headley	Healy	Using Data Mining to Assess the Accuracy of Weather Forecasts
Furman University	Kaitlin Marakoff	Wamsley	The Effect of Smartphone Use on Memory Processing During Resting Periods
Limestone College	Kirk Nelson	Tanner	The Use of ABC-Transporter Deficient C. elegans as a Model for Intestinal Function
Limestone College	Joshua Lang	Cavanaugh, Meyers	Pedometers and Test Scores
Presbyterian College	Lucas Pressley	Gearheart	Gold Nanoparticles as Catalysts in the Enzyme-Mediated Relaxation of Supercoiled Plasmid DNA
Southern Wesleyan University	Reagen Welch	Tietje	Moringa oleifera leaf extract and its cancer-selective antiproliferative properties
Southern Wesleyan University	Leah Moorefield	Johnson	Hormone Levels in Blood Plasma Versus Saliva
Southern Wesleyan University	Erin Cross	McDonald	The Effect of Gun Maintenance on Bullet Striations Through Successive Firings
Southern Wesleyan University	Mikkaela Bailey	Myers	Charting a Course for Englishmen: The Impact of the Magna Carta on the English National Identity From the 13th Century Through the 18th Century
Spartanburg Methodist College	Emily Edmonds	Cheek	The Scots-Irish Roots of Southern Appalachian Linguistic and Musical Conventions
Wofford College	Lillian Fant	Radfar	Structural Studies of Cytochrome c and its Interaction With Cardiolipin
Wofford College	Aaliyah Keels, Madison Capotosi	Radfar	The Effect of Antifolates on the Activity of Folate-Binding Enzymes, Targets for Drug Therapy
Wofford College	Iam Rines	Cruze	Experimental Evolution of Mating Systems During Times of Environmental Stress
Wofford College	Katherine Howell	Trakas	Eden: A Novel