

Summer Research Experience for Teachers (SRET)

2018 Research Teams



Hyperspectral Imaging for Cancer Detection in Surgery

Faculty Mentor: Dr. Susan Trammell, associate professor, physics and optical science
Student Mentors: Nancy Ceja, physics major and Charlotte Community Scholar
Cobey McGinnis, physics major
SRET Fellows: Martha Gwinn, History, Harding University High School
Liz Ratliff, Math, East Mecklenburg High
Jackie Smith, Science, Hough High School

Black Girlhood, Literature, and Community Engagement

Faculty Mentor: Dr. Janaka Lewis, associate professor, English
Student Mentor: Kimberley Sanders, undergraduate student
SRET Fellows: Tiffany Craig, Special Education, Barringer Academic Center
Effuah Sam, Theatre Arts, Ranson Middle

Making for STEM Learning and Engagement

Faculty Mentor: Dr. Dave Wilson, professor, software and information systems
Student Mentor: Sarah Abdellahi, Ph.D. student, software and information systems
SRET Fellows: Elyse Hiatt, 2nd gr., Dorothy Vaughn Academy of Technology
Lindsey Scheppelgrell, 2nd gr., Dorothy Vaughn Academy of Technology

The Victorians and the Natural World

Faculty Mentor: Dr. Alan Rauch, professor, English
Student Mentor: Zach Margolis, English/political science major
SRET Fellows: Tamara Babulski, World History, Independence High
Todd Statome, IB Philosophy, East Mecklenburg High



Johnson C. Smith University

Solving Big Problems with Tiny Threads: Sustainable Nanotechnology Research

Faculty Mentor: Dr. Todd Coolbaugh, assistant professor, chemistry
Student Mentors: Marcael Davis, undergraduate student
Jessica Stills, undergraduate student
Amara Wyatt, undergraduate student
SRET Fellows: Sandra Ramsey, environmental science, West Mecklenburg High
David Toomer, 5th grade, Reedy Creek Elementary

Manipulating the Performance of Cellulose Nanomaterials via Photocatalysis

Faculty Mentor: Dr. Tracy Fox-Brown, assistant professor, chemistry
Student Mentor: Ebony Dockery, undergraduate student
SRET Fellows: Hanna Gainey, 5th grade, Grier Academy
Katie Grams, environmental science, Olympic High



Renewable Materials: Making Bio-Based Ionic Liquids and Fuels

Faculty Mentor: Dr. Aaron Socha, assistant professor, chemistry
Student Mentor: Wade McAdams, biochemistry major
SRET Fellows: Carla Aaron-Lopez, art, Whitewater Middle
Erika Williams, science, Berry Academy of Technology

Comparative Toxicity of Pesticides to Temperate and Tropical Amphibians

Faculty Mentor: Dr. Scott Weir, assistant professor, biology
SRET Fellows: Emily Burrell, math, Piedmont Middle
Dasean Nardone-White, biology/earth science, North Mecklenburg High