SCUREF Task Orders
Active During the Past Three Years

Clemson University

1. Examination of the Electrical Properties of Micro- and Nano-Scale Properties in Weak Electrostatic Field
   Dr. Apparo Rao, Department of Physics and Astronomy

2. ARML Imaging Instrument Access
   Dr. Laxmikant Saraf, Advanced Material Research Lab

3. SRNL-Clemson University Graduate Course in Nuclear Safeguards
   Dr. Timothy Devol, Environmental Engineering and Earth Sciences

4. Support on Performance and Limitations of Electron Backscatter Diffraction
   Dr. Brian Powell, Environmental Engineering and Earth Science

5. SRNS SCM Asset Management Operational Involvements
   Dr. Scott Mason, Industrial Engineering

6. Ceramic Materials Synthesis and Characterization
   Dr. Kyle Brinkman, Materials Science and Engineering

7. Anion Exchange Membranes Application
   Dr. Scott Husson, Chemical and Biomolecular Engineering

8. Implement On-line or In-line process Technology for Analysis of Measurement Points
   Dr. Kenneth Marcus, Chemistry

9. Radiation Detection Research & Development
   Dr. Timothy Devol, Environmental Engineering and Earth Sciences

10. Tritium Supply Chain Modeling and Analysis
    Dr. Scott Mason, Industrial Engineering

11. Fabrication and Characterization of Graphene Membranes
    Dr. Apparo Rao, Department of Physics and Astronomy

12. Advanced Microanalytical Measurements
    Dr. Laxmikant Saraf, Advanced Material Research Lab

13. Water Isotope Separation Testing
Dr. Stephen E. Creager, Chemistry

14 MDOA and TEA Resin Development
Dr. Timothy Devol, Environmental Engineering and Earth Sciences

15 Access to Electron Microscope Facility in ARML
Dr. Laxmikant Saraf, Advanced Material Research Lab

16 Two-day Workshop focused on Advanced Nuclear Separation
Dr. Lindsay Shuller-Nickles, Environmental Engineering and Earth Sciences

17 Synthesize, Characterize and Test Anion Exchange Membranes
Dr. Scott Husson, Chemical and Biomolecular Engineering

18 Solid Waste Encapsulation Microscopy
Dr. Laxmikant Saraf, Advanced Material Research Lab

19 SRR Technical Support Provided by Clemson University
Dr. Brian Powell, Environmental Engineering and Earth Sciences

Medical University of South Carolina

20 Employee Wellness Model Options and Surveillance Feasibility
Dr. Lawrence C. Mohr, Environmental Biosciences

South Carolina State University

21 Savannah River Environmental Sciences Field Station
Dr. Stanley Ihekweazu, Interim Dean Science and Technology

University of South Carolina Columbia

22 Expert Assistance in the Study of Historical Earthquakes
Affecting the SRS
Dr. Pradeep Talwani, Earth and Ocean Sciences

23 Support of the SC Seismic Monitoring Network
Dr. Thomas Owens, Earth and Ocean Sciences

24 Ceramics Membrane Characterization
Dr. Fanglin Chen, Mechanical Engineering

25 SRNL-USC-Columbia; Introductory Course on Nuclear Safeguards
Dr. Travis Knight, Department of Mechanical Engineering
26  Acoustic Emission Sensor Systems - ISD Sensor
Network Demonstration
Dr. Paul Ziehl, Civil and Environmental Engineering

27  Sunshot Corrosion Numerical Simulation
Dr. Kevin Huang, Mechanical Engineering

28  Polymer Development for Pu Anion Exchange Mechanical Array
Dr. Brian Benicewicz, Chemistry, Biochemistry and Nanocenter
Elucidation of the Fundamental Chemistry for Glycolic-Nicotric Acid Flowsheet  
Dr. Christopher Williams, Chemical Engineering

Develop and Implement Introductory Course in Nuclear Safeguards  
Dr. Travis Knight, Mechanical Engineering

Activities with Microparticles  
Dr. Christopher Williams, Engineering and Computing

University of South Carolina Aiken

Research of Surface Enhanced Raman Spectroscopy for Microparticle Detection/Characterization  
Dr. Chad L. Leverette, Chemistry and Physics

Nuclear Non-Proliferation International Safeguards Graduate Fellowship Program  
Dr. William Pirkle, Sponsored Research Office