



Christopher Randall
Senior
Alabama A&M University
Major: Mechanical Engineering

Faculty Advisor:
Dr. Z. T. Deng

Program:
Research Alliance in Math & Science

Email: cx8@ornl.gov
Home: crandall9123@yahoo.com

Research Area: Computational Science and Engineering

Perform research on New Local Minimization Algorithms for the TRUST Global Optimization Code. The scope of this task is to develop code (in Visual FORTRAN 95), and test a new algorithm based on "fractional power adaptive switching gradient descent" (FPASGD) for TRUST. Such an algorithm should provide additional speed during each local minimization processes and thereby prove itself more cost efficient for large scale global optimization problems.

Research Mentor:
Jacob Barhen, Ph.D.
Center for Engineering Systems Advanced Research
Oak Ridge National Laboratory
(865) 574-3144
Email: barhenj@ornl.gov