



Lamont D. Johnson  
Senior  
Alabama A&M University  
Major: Mechanical Engineering

Faculty Advisor: Dr. Z.T. Deng

Program:  
Research Alliance in Math & Science

Email: [johnsonld@ornl.gov](mailto:johnsonld@ornl.gov)  
Home: [Ljohnson3@aamu.edu](mailto:Ljohnson3@aamu.edu)

Research Area: Computational Biology

Project includes research on the patella (a thick flat triangular movable bone that forms the anterior of the knee) and its complications. All components of the knee normally work together smoothly, however, disease or injury can disrupt this balance. Through research it is anticipated that the reasons for knee fractures can be identified. The desired outcome is that total knee arthroplasty (restoration of the joint) can be avoided.

Research Mentor:  
Boyd Evans  
Engineering Science & Technology Division  
Advanced Lasers, Optics, and Diagnostics  
Oak Ridge National Laboratory  
(865) 574-9418  
FAX: (865) 584-1249  
Email: [evansbmiii@ornl.gov](mailto:evansbmiii@ornl.gov)