Olivia Underwood

Graduate Research Assistant

Department of Mechanical and
Aerospace Engineering

BIO:

Ms. Olivia Underwood earned her Bachelor of Science degree in Metallurgical Engineering in 2008 and her Master of Science degree in Metallurgical Engineering in 2009 at The University of Alabama in Tuscaloosa. While at The University of Alabama, Olivia did 3 co-op rotations with Honda Manufacturing of Alabama in Lincoln, AL, an internship with Chevron Oil Refinery in Pascagoula, MS, and an internship with American Cast Iron Pipe Company (ACIPCO) in Birmingham, AL. She also worked as a Graduate Teaching Assistant for 2 semesters. After Olivia graduated with her Master of Science degree, she accepted a full-time position with CGI Federal Defense as a Failure Analyst Engineer.

Olivia is currently pursuing a Ph.D. in Materials Science. This work involves understanding the effect that grain boundary character distribution (GBCD) have on crack tip kinetics in the materials of Nickel and Nickel Alloys. She is currently working with Dr. Evans in the Propulsion Research Center. Some of her work will be performed at the UAHuntsville Propulsion Research Center and the rest will be performed at The University of Alabama in Tuscaloosa and on the Redstone Arsenal.

Olivia is currently a Gates Millennium Scholarship recipient. She also serves as a mentor for Gates Millennium. In 2012, she was selected as a Gates Scholar to attend the Compact for Faculty Diversity's 19th Annual Institute on Teaching and Mentoring. She is a member of The Minerals, Metals, and Materials Society (TMS).

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RELEVANT PUBLICATIONS:

1. Underwood, O., Welsh, S., Damjanovic, M., "Grain Boundary Engineering (GBE) of Nickel 200," TMS 2013 142nd Annual Meeting & Exhibition, San Antonio, TX, March 2013