Post-Doctoral Research Appointment in Nanomaterials Characterization

Professor Gregory B. Thompson at The University of Alabama is seeking candidates to fill a post-doctoral research position. The candidate will be involved in research activities in characterizing nanoscale materials through atom probe tomography and various transmission electron microscopy techniques including precession electron diffraction, *in situ* mechanical testing in the TEM, and HRTEM. The specific programs funding this research involve quantification of solute segregation behavior to grain boundaries to mitigate grain growth in nanocrystalline alloys as well as clustering and precipitation in multi-component magnetic alloys used for electric propulsion. Successful candidates in this position will be expected to publish in peer-reviewed journals, present at professional society conferences, assist in report writing to the sponsors of these programs, and provide guidance of graduate students in these topics.

The candidate will join a highly dynamic research group of multiple graduate students and other post-doctoral researchers. Details of Professor Thompson’s research activities can be found at [http://thompsonresearch.ua.edu/](http://thompsonresearch.ua.edu/).

The University of Alabama (UA) has a suite of state-of-the-art analytical microscopy equipment, including the newest generation Local Electrode Atom Probe (LEAP) 5000XS. Further details on UA’s Central Analytical Facility can be found at [https://caf.ua.edu/](https://caf.ua.edu/). This appointment will offer ample opportunities to use this equipment to advance these programs.

The successful candidate should hold a doctorate degree in Materials Science & Engineering or a closely related field with demonstrated experience and expertise in one or more of the areas of atom probe tomography, cross-correlative microscopy, transmission electron microscopy, and focus ion beam specimen preparation. The position will be for one year, with renewal funding based on performance and available funding.

Interested candidates are encouraged to contact Professor Thompson directly as well as apply for the post-doctoral position through the University of Alabama site – [https://facultyjobs.ua.edu/postings/43384](https://facultyjobs.ua.edu/postings/43384)

The position would ideally begin March 1st, 2019 but can be adjusted dependent on candidate qualifications.

**Gregory B. Thompson, PhD**  
University Research Professor  
Professor of Metallurgical & Materials Engineering  
Director of the Materials Science PhD Program – UA campus  
Director of the Central Analytical Facility  

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The University of Alabama [https://www.ua.edu/](https://www.ua.edu/) is a campus of 38,500+ students located on the banks of the Black Warrior River in Tuscaloosa, Alabama USA. It has a population of 150k and is approximately 100 km from Birmingham. It has been recognized as one of the “100 Best Communities for Young People” by America’s Promise Alliance. The city offers a range of shopping, restaurants and state parks in the vicinity. Tuscaloosa is also home to Mercedes-Benz U.S. International, which allows Tuscaloosa to have the only Mercedes-Benz Museum in the world outside of Germany.