Dr. Lin Li Group in the Department of Materials and Metallurgical Engineering at the University of Alabama is seeking students interested in earning a doctoral degree starting either Fall 2017 or Spring 2018 in the area of computational materials engineering. We are specifically working on material microstructural modeling of processing and microstructural relationship of advanced Ni based superalloy fabricated by selective laser melting. The project is funded by NASA and the University of Alabama in Huntsville (UAH) and in collaboration with NASA Marshall Space Flight Center, and will include work of phase field and finite element modeling and advanced material microstructural characterization. The student will join the Department of Materials and Metallurgical Engineering (http://mte.eng.ua.edu/) at the University of Alabama. Strong quantitative skills, work ethic, communication skills, and the ability to work independently are required. We seek excellence in a range of areas including material mechanics, physical metallurgy, computational materials. MS degree is not required but preferred. Interested prospective students should contact Prof. Lin Li at lin.li@eng.ua.edu along with a CV and transcript.

The research topics in Dr. Lin Li Group include (1) multiscale modeling of structure and deformation dynamics of advanced metallic systems including metallic glass, nanocrystalline metal and high entropy alloy; (2) material microstructural modeling of processing and microstructural relationship of advanced Ni based superalloy fabricated by selective laser melting; (3) strain engineering of two-dimensional materials. For details, please refer to the group website (http://linli.people.ua.edu/).