

Visiting Scholar Recruitment

Assistant Prof. Hung-Ta Wang welcomes PhD students visiting his new group at the University of Alabama-Tuscaloosa. His group is interested in nanomaterial's fundamental properties (such as electrical, thermal, optical properties) and its application for thermoelectric energy and cell detection. Two main research areas are:

1. **Thermoelectric material:** Solid-state thermoelectric generator is considered as an important energy technology. The main research scope is developing nanostructured thermoelectric material for the improved heat-to-energy conversion efficiency. The visiting scholar will conduct CVD synthesis, micro/nano fabrication, and electrical/thermal measurements.
2. **Nanowire based cellular sensor:** Nanowire's unique geometry is ideal for intracellular probing, a novel and promising methodology for cell metabolism detection and drug delivery. The visiting scholar will conduct CVD and micro/nano fabrication to develop Si nanowire vertical sensor. Using electrical signal, the device will be demonstrated for single cell detection (such as heart, bone, or liver cell)

We are looking for enthusiastic visiting scholars with background on chemical and material science, chemical and material engineering, or other related disciplines. Of particular interest are PhD students with experience on CVD synthesis, micro/nano fabrication, and SEM/TEM. Living expenses will be partially supported. Please contact the principal investigator for more details.

Assist. Prof. Hung-Ta Wang
Center for Materials for Information Technology (MINT)
Department of Chemical and Biological Engineering
University of Alabama - Tuscaloosa
Current Contact: hungta@berkeley.edu
hungtawang@gmail.com