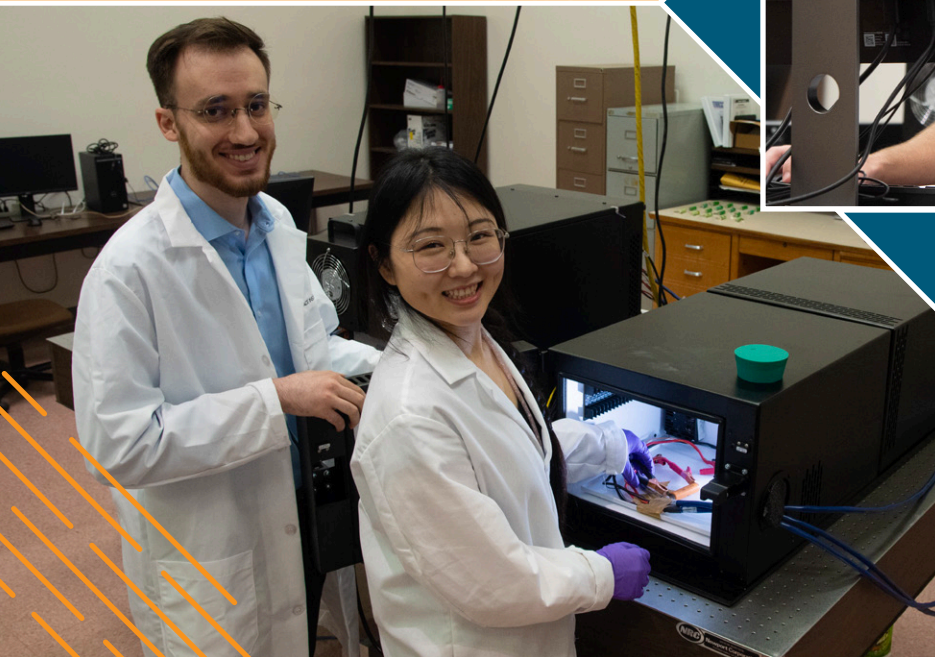


# LAMP

Laboratory of Advanced Mobility and Power



**T** ENGINEERING

## WHAT IS LAMP?

LAMP (Laboratory of Advanced Mobility and Power) targets key issues in the frontier of energy sustainability and green transportation. They are at the forefront of research in reacting flow, fuel, engine, and battery safety. Considering the global tendency of electrification and decarbonization, their current research interests focus on clean combustion technology based on low and zero carbon fuels, safety evaluation and thermal management of electrical energy storage medium, multi-physical modeling of advanced energy conversion systems, data-driven optimization of complex power and propulsion systems.

### Research Areas

- ▶ Combustion and thermal-fluid science
- ▶ Alternative fuels, chemical kinetics, advanced powertrain, and propulsion systems
- ▶ Thermal management and safety of lithium-ion batteries
- ▶ Numerical simulation, machine learning, and computational diagnostics

### Benefits

Fully funded graduate research assistantships (GRAs) are immediately available.



Tuition & fee wavier



Monthly Stipend



Student Health Coverage



Opportunities to write papers, present at conferences, & work on sponsored research

## WANT TO JOIN US?

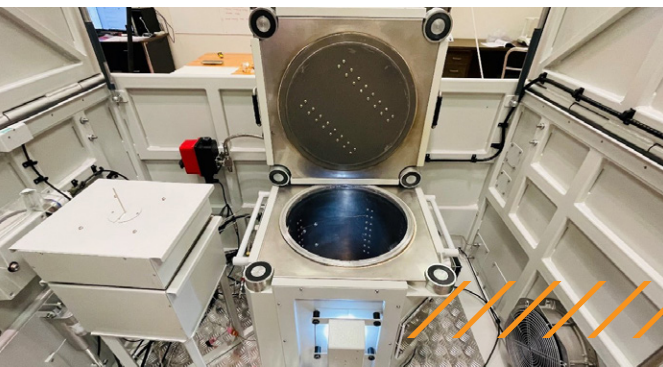
LAMP is seeking highly motivated MS and PhD students who are interested in making a difference in the world through research that targets energy sustainability and green transportation issues.

- High-impact publications in leading energy and combustion journals
- Research sponsored by US Department of Energy, National Science Foundation, and industry partners
- High fidelity numerical simulation of low carbon fuel combustion
- Experimental characterization and modeling of battery thermal runaway
- Lab-oriented research on energy sustainability and green transportation



## INTERESTED?

- 1 Reach out to UTSI's Graduate Recruiting and Admissions Office at [admit@utsi.edu](mailto:admit@utsi.edu).
- 2 Contact LAMP's Director Peng Zhao and schedule a visit. See [utsi.edu/lamp](https://utsi.edu/lamp).
- 3 Apply for admission to the UT Graduate School at [apply.gradschool.utk.edu/apply/](https://apply.gradschool.utk.edu/apply/) and select the program marked **Space Institute**.







THE UNIVERSITY OF  
**TENNESSEE**  
KNOXVILLE

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