

T HORIZON





WHAT IS HORIZON?

Founded in the fall of 2014, HORIZON conducts foundational research in aerothermodynamics and the science of ground testing through research on the numerical modeling of complex flows and shock waves, and the experimental capabilities of the university.





Research Areas

- ▶ Hypersonic aerothermodynamics
- ▶ Hypersonic propulsion
- ▶ Experimental aerothermodynamics
- ▶ High-speed wind tunnel experimentation
- ▶ Optical diagnostic measurements (e.g., high-speed imaging, laser-based diagnostics)
- ▶ Shockwave/boundary-layer interactions and fluid/structure interactions
- ▶ High-fidelity numerical methods and computational science

WANT TO JOIN US?

HORIZON is seeking highly-motivated MS and PhD students who would like to develop their expertise across the areas of high-speed flows, optical diagnostics, and high-fidelity numerical simulations.

Benefits

-  Tuition waiver
-  Monthly Stipend
-  Student Health Coverage
-  Opportunity to write papers, present at conferences, work on sponsored research

Interested?

1. Contact faculty member at HORIZON
2. Apply for admission to UT Graduate School at apply.gradschool.utk.edu/apply/
3. XXX

\$16M
research portfolio
over last 8 years

\$2M
in state-of-the-art
equipment

2
supersonic
blowdown tunnels
Mach 2, Mach 2.3

**Mach 4
& Mach 7**
Ludwig Tubes

376-acre
Campus in
Tullahoma, TN

partnered with
**AEDC,
DOD,
& NASA**



THE UNIVERSITY OF
TENNESSEE
KNOXVILLE

SPACE INSTITUTE
AT TULLAHOMA

HORIZON Center

411 B. Goethert Parkway
Tullahoma, TN 37388

p. (931) 393-7274

e. jschmiss@utsi.edu

w. horizon.utsi.edu