

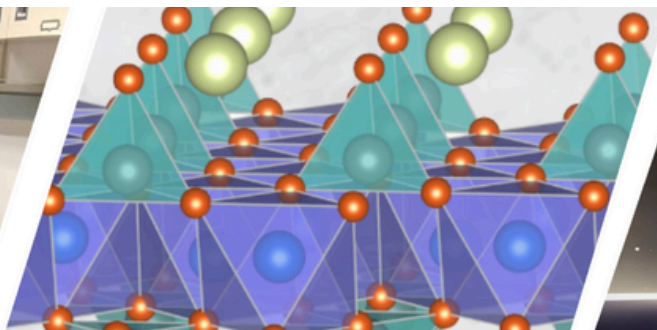


# TN-QuMat Workshop 2025



November 7, 2025

Tennessee State University, Nashville, TN



## PREPARING TENNESSEE QUANTUM-READY WORKFORCE

### Event Details

**DATE:** November 7, 2025

**PLACE:** Tennessee State University,  
1112 37th Avenue North,  
Nashville, Tennessee 37209

**SCHEDULE:** 8:30 am - 5:30 pm

### Topics

- Many-body theory and simulations
- Ab initio study of quantum systems
- Synthesis and characterization
- Quantum computing for materials
- Machine learning

### Speakers



- Travis Humble (ORNL)
- Thomas Maier (ORNL)
- Hendrik Heinz (UC-Boulder)
- John Villanova (MTSU)
- Tom Berlijn (ORNL)
- Richard Mu (TSU)
- Hanna Terletska (MTSU)
- Daniel Nino (Xanadu)
- Fei Li (Virginia Tech)
- Mariia Karabin (MTSU)
- Ryan Herring (IONQ)

### Hands-on Sessions



- ✓ Many-body methods  
(DCA++, ALPS)
- ✓ Density functional theory
- ✓ AI for Materials
- ✓ Quantum Computing

Registration link and program:  
<https://tn-qumat.org>



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