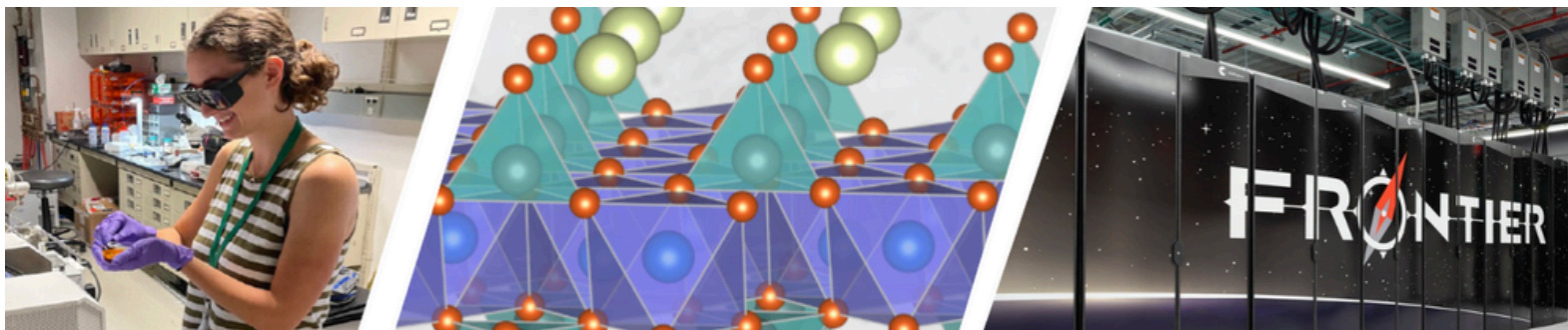




TN-QuMat Workshop 2025

November 7, 2025

MTSU-TSU-Fisk-Meharry-ORNL Partnership



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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