



Capstone Design

CONFERENCE 2024

JUNE 3–5, 2024 ► KNOXVILLE, TENNESSEE

Tour Information

All tours will be Tuesday morning, June 4th. Details of the tours are shown below. Sign up for tours during registration. There is a cost for the off-campus tours which you will pay during registration.

Off-Campus Tours

There are two off-campus tours Tuesday morning to Oak Ridge National Laboratory (ORNL) and to the Manufacturing Demonstration Facility (MDF).

Oak Ridge National Laboratory - \$30

The Department of Energy's Oak Ridge National Laboratory (ORNL) tour will feature three facilities found nowhere else on the planet. Not open to the public, this tour provides a unique opportunity to see the following history-making facilities:

1. **Graphite Reactor.** The Graphite Reactor at ORNL was the world's first continuously operated nuclear reactor. It played a crucial role in the Manhattan Project during World War II and subsequent research in nuclear science. Key features include its historical significance, advanced nuclear research capabilities, and contributions to scientific breakthroughs such as the production of medical isotopes.
2. **Frontier Supercomputer.** ORNL's Frontier Supercomputer is the world's most powerful high-performance computing system. It offers unparalleled computational capabilities for scientific research, data analysis, and simulation across various disciplines. Key features include its exascale processing power, advanced architecture, and applications in areas such as materials science, climate modeling, and genomics.
3. **Neutron Scattering Facilities.** ORNL hosts world-class neutron scattering facilities, such as the Spallation Neutron Source (SNS) and High Flux Isotope Reactor (HFIR). These facilities provide researchers with unique capabilities to study the structure and properties of materials at the atomic and molecular levels. Key features include their versatility, precision, and applications in materials science, chemistry, and biology.

Note that this tour requires visitors to indicate their country of citizenship at the time of registration. The last day to sign up for this tour is May 6th.

Buses will depart at 7:30am and will return by noon. Meet in the ground floor lobby of the Zeanah Engineering Complex.



Manufacturing Demonstration Facility - \$30

This tour will visit the Department of Energy's Manufacturing Demonstration Facility (MDF). The MDF is one of the Department of Energy's designated user facilities focused on performing early-stage research and development to improve the energy and material efficiency, productivity, and competitiveness of American manufacturers.

Note that this tour requires visitors to indicate their country of citizenship at the time of registration. The last day to sign up for this tour is May 6th.

Buses will depart at 7:30am and will return by noon. Meet in the first-floor lobby of the Zeanah Engineering Complex.

On-Campus Tours

There are two different on-campus tours available, one of the University of Tennessee campus and one that focuses on the Tickle Engineering College. There is no cost for either of these tours.

Campus Tour

This is the basic campus tour to visit key locations throughout the university and will last 90 minutes. It is offered twice at 8:30am and at 10:30am.

Meet in the ground floor lobby of the Zeanah Engineering Complex.

Tickle Engineering College Tour

This tour will focus on the unique aspects of the Tickle Engineering College. It will last 90 minutes and is offered once at 10:30am.

Meet in the ground floor lobby of the Zeanah Engineering Complex next to the Kao Innovation and Collaboration Studio.