

Foundations of Computing and AI for Research

A three-session hands-on series designed to introduce researchers to computing at every scale.

About the Series

Great research starts with a strong foundation. This three-part hands-on workshop series is designed to build yours, guiding you step by step through the computing platforms that power modern research. Start with HPC fundamentals on UTEP's Punakha cluster, advance to machine learning on the TACC Vista supercomputer, and explore how to take control of your own Large Language Models using NSF ACCESS cloud resources.



Workshop Details

SCHEDULE

9:00 AM – 12:00 PM

Fridays — July 10, 17, & 24, 2026

WHO SHOULD ATTEND

- Research Faculty
- Research Graduate Students
- Postdoctoral Researchers
- Research Staff

LOCATION

Chemistry & Computer Science Building

SCALE-UP Room G.0706A

WHAT YOU'LL GAIN

- Hands-on HPC experience
- Foundational ML workflows
- Fundamentals on Commercial and Open-Source LLMs

Workshop Sessions

Register for the session that best fits your needs or attend all three to build a complete foundation.

SESSION 1

JULY 10, 2026

PUNAKHA CLUSTER

HPC Foundations

Get hands-on with high-performance computing fundamentals. Learn how to navigate, submit, and manage research workloads on UTEP's Punakha cluster.

[RSVP for Session 1](#)

SESSION 2

JULY 17, 2026

TACC VISTA

ML Foundations

Develop practical machine learning skills on TACC Vista, through interactive Jupyter notebooks, you'll work with artificial datasets and learn how to train and evaluate ML models.

[RSVP for Session 2](#)

SESSION 3

JULY 24, 2026

NSF ACCESS CLOUD

AI Foundations (LLMs)

Explore Large Language Models and learn how to deploy private models for your own research using NSF ACCESS cloud resources.

[RSVP for Session 3](#)