

# 6<sup>th</sup> IEEE FerroSchool 2025 Oak Ridge National Laboratory

18 August 2025 – 22 August 2025

Oak Ridge National Laboratory, Knoxville, Tennessee (US)



## CALL FOR APPLICATIONS

### IMPORTANT DATES

**Sunday, May 11, 2025**

Application Submission Deadline

**Sunday, May 25, 2025**

Acceptance Notification

**Sunday, June 15, 2025**

Registration Deadline

**Monday, August 18 –  
Friday, August 22, 2025**

IEEE Ferroschool

### APPLICATION

Submit application at

<https://events.ornl.gov/ferroschool2025/registration/> including:

- Expression of Interest
- Short CV

### REGISTRATION

(Accepted applications)

Registration fee: \$350.00

Registration includes accommodation for 5 nights in a shared room, travel to and from the laboratory, meals and all events included in the program.

### SPONSORS

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**IEEE Ultrasonics, Ferroelectrics,  
and Frequency Control Society**

The IEEE UFFC Ferroschool will offer 40 seats to students and postdocs to get educated and discuss about the state of the art of the field of ferroelectrics over one week of lectures and hands on experience in experimental capabilities.

### TOPICS for LECTURES:

- Fundamentals of piezoelectric and ferroelectric materials
- Applications of piezoelectric and ferroelectric materials
- Relaxors
- Antiferroelectrics and multiferroics
- Processing of ferroelectrics, crystals, ceramics, thick & thin films
- Ferroelectrics for microelectronics
- Characterization of ferroelectric materials: optical and electronic methods
- Ferroelectric switching and dynamics
- Domain wall studies
- Light matter interactions in ferroelectrics
- Piezoelectrics and ferroelectrics for catalysis
- Theory: thermodynamics, phase field and DFT simulations

### LABORATORIES AND DEMONSTRATIONS:

- Advanced workshop on Piezoresponse Force Microscopy
- Advanced workshop on AE and ML for the characterization and synthesis of thin films
- Electron Microscopy for the study of ferroelectric materials
- Spallation Neutron Source and HFIR
- Nanofabrication and defect engineering for ferroelectrics

### LABORATORY TOURS & DEMOS TO ALL USER FACILITIES AT CNMS, SNS AND HFIR

### POSTER SESSION:

- A poster session will take place on Monday afternoon.
- All participants are kindly invited to prepare a poster to introduce themselves and present their research to the speakers and colleagues of the Ferroschool.

### SOCIAL PROGRAM:

- It is the aim of the IEEE Ferroschool to promote the generation of networking among the participants and the lecturers.
- A comprehensive program of networking events will be offered for all evenings.

**FOR MORE INFORMATION PLEASE VISIT OUR WEBSITE**

<https://ferroschool2025.ornl.gov>