Zhao Nano Lab | University of Georgia



Graduate Student Recruitment

SERS Biosensors

Join us to develop novel nanostructures and SERS platforms for viral, bacterial, and chemical detection.

Future Projects

- AI-enabled SERS biosensors for rapid viral and bacterial detection
- Plasmonic nanostructure engineering and advanced SERS substrate design
- Portable and low-cost Raman/SERS systems for point-of-care sensing
- Microfluidic sample preparation integrated with spectroscopy
- Spectral analytics, machine learning, and data-driven biosensing workflows

Research Opportunities

- Nanofabrication and surface engineering
- Raman/SERS spectroscopy and biosensing
- Microfluidics and device integration
- Data analysis, AI, and chemometrics
- Collaborative translational research in health and environmental sensing

Ideal Backgrounds

Physics • Chemistry • Materials Science • Biomedical Engineering • Chemical Engineering • Electrical Engineering • Data Science

Why Join Us?

- Interdisciplinary research environment
- Hands-on training in advanced instrumentation
- Opportunities for publications and conference presentations
- Impactful projects in diagnostics and sensing

Open to motivated graduate students

Students interested in spectroscopy, nanomaterials, biosensing, and AI-driven research are encouraged to connect.

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