# Soft and Hybrid Nanotechnology Experimental (SHyNE) Resource
# NSF ECCS-2025633

**Prof. Vinayak Dravid, Northwestern (Director); Prof. Andrew Cleland UChicago (Co-Director)**

SHyNE
Soft and Hybrid Nanotechnology Experimental Resource

Northwestern University | THE UNIVERSITY OF CHICAGO

Northwestern | INTERNATIONAL INSTITUTE FOR NANOTECHNOLOGY | PRITZKER SCHOOL OF MOLECULAR ENGINEERING, THE UNIVERSITY OF CHICAGO

## Illuminate Your Research

EXPERT TECHNICAL STAFF

STATE-OF-THE-ART INSTRUMENTATION

HANDS-ON ACCESS

HIGH QUALITY TRAINING

### NANOSCALE CHARACTERIZATION
- Composition Analysis
- Electrical/Mechanical
- Life Sciences Analysis
- Structural Analysis
- Surface Analysis

### NANOSCALE FABRICATION
- Packaging, Testing, Measurement
- Thermal Processing
- Thin Film Deposition
- Wet Processing
- Dry Etching
- Lithography

### WORLD-CLASS EXPERTISE AND INSTRUMENTS

**OPEN TO RESEARCHERS:**
- Local, Regional, National, Global
- Industry, Academic, Government, Non-Profit

**ACCESS MODES**

Full-Service
*SHyNE Staff Provides Consultation and Executes Project*

Self-service
*On-site Training and Independent Usage*

Assisted Use
*On-site Staff-Assisted Usage*

### EDUCATION AND OUTREACH
- Nano-Journalism
- Industry Liaison
- Vendor Demos
- Short Courses
- K-12 Activities
- Chicago Museums
- Summer REU & RET

**CONNECT WITH US:**

### KEY CAPABILITIES
- Peptide Synthesis
- Electron Microscopy
- Cleanroom Fabrication
- Atom Probe Tomography
- Atomic Force Microscopy
- Materials Characterization
- Electrical Characterization
- X-Ray Diffraction
- Mass Spectrometry
- Raman Spectroscopy
- Advanced Metrology
- Thin Film Deposition
- Molecular Characterization
- X-Ray Photoelectron Spectroscopy

**Prof. Vinayak P. Dravid**
Director, SHyNE Resource
President Abraham Harris
Chaired Professor of
Materials Science & Engineering

## BEGIN YOUR PROJECT

**www.shyne.northwestern.edu**

**Contact:** (847) 467-2318
shyne@northwestern.edu

National Nanotechnology Coordinated Infrastructure