

**24 / 7 Access! Hands-on training! Technical Assistance!**

## Mission

The Northwestern University's Atomic and Nanoscale Characterization Experimental Center (NUANCE) was established in 2001. Per founding director Professor Vinayak David's vision, NUAANCE integrates complementary analytical instruments and characterization capabilities for fabrication & characterization of soft, hard & hybrid materials, structures and devices.



Professor Vinayak P. David  
Director, NUAANCE & SHyNE

## By the Numbers

### Team

**25+** Total Technical & Administrative Staff



### Instruments

**150+** Instruments



### Users

**1,000+** Annual Users



### Space

**24,000+** sq. ft. Research Space



### Publications

Over **400+** publications in research, education, infrastructure and facilities



## Diversity by Department

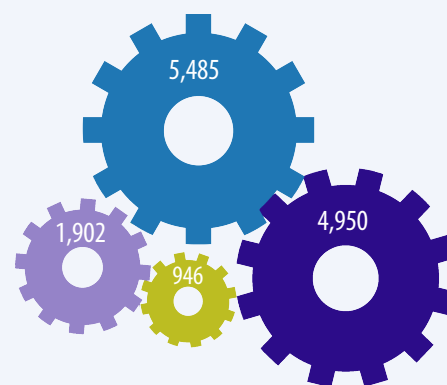
Biomedical  
Chemistry  
Education  
Electronics  
Geosciences  
Life Sciences  
Materials  
MEMS/Mechanical Engineering  
Physics

## Outreach & Education

Participants Yrs 1- 8

### Activities

- Academic Outreach
- Workshops-Lectures
- Corporate Outreach
- K-12 & Community Outreach



## Facilities

### EPIC

- Electron Probe Instrumentation Center
- TEM, SEM, FIB
  - EDS, EELS, EBSD
  - Sample Prep

### BioCryo

BioCryo Facility

- Bio, soft & hybrid
- TEM, SEM, STEM
- EDS, EELS

### Keck-II

Keck Inter-Disciplinary Surface Science

- ToF-SIMS
- FTIR
- XPS

### SPID

Scanned Probe Imaging & Development

- AFM, SPM
- NanoIndentation
- Raman microscopy

### NUFAB

Micro/Nano Fabrication Facility

- Deposition
- Lithography
- Etching