



UNIVERSITY OF NORTH TEXAS  
**RESEARCH FACILITY TOUR**

MAY 7, 2027

Discovery Park  
3940 North Elm Street  
Denton, TX 76207



### Wide Band Gap Semiconductors

Clean Room for Processing

- RF characterization
- Nitrides
- Oxides
- Diamond
- Boron Nitride

Thin Film Processing by

- Sputtering
- PLD
- MOCVD
- MPCVD
- e-beam

### Tribology & Coatings

Explore the **largest academic tribology center** in the United States that includes a wide range of

- load-temperature-speed-environment testing conditions
- self-adaptive and tribo-catalytic materials
- in-situ Raman analysis

Usage is primarily focused on aerospace applications.



Venture through all Discovery Park has to offer

- Additive Manufacturing
- Extreme Environment Alloys and Ceramics
- Autonomy
- AI and Data Science Institute
- Cyber & AI Security
- Industry Training and Assessment

### Extreme Environment XRD



Discover our one of a kind XRD Systems. These machines are capable of cooling to cryo while in a vacuum, heating to 4,000°C in air, or mechanical loading and heating.

### Advanced Materials Characterization

Peruse the extensive machinery available at Discovery Park

- 3D atom probe
- plasma FIB
- multiple SEMs with heating stages & EBSD
- HRTEM
- XPS
- Auger

