

Vanderbilt Institute of Nanoscale Science and Engineering (VINSE)
VINSE provides access and training on state-of

- HMDS Vapor-Prime/NH₃ Image-Reversal Vacuum Oven - Yield Engineering Systems (YES) 310TA
- Standard vacuum and general-purpose ovens

Process Hoods:

- RCA Clean
- Photoresist Spin/Bake
- Photoresist Develop
- Liftoff
- Microfluidics
- EBL Support
- HF
- Acid/Base
- General Use

Miscellaneous Equipment:

- Nikon Optical Microscope with digital image capture, custom transfer stage for 2D materials and a custom heated stage
- Olympus Optical Microscope with digital image capture
- Wire Bonder - Westbond Wedge 7476D
- Dicing Saw - Disco DAD3220
- Probe Station –

Probe Station w/ 3!_a* àa" g x

- NanoSight – Malvern Panalytical NS300
- NanoAssemblr – Precision Nanosystems Benchtop

VINSE Advanced Imaging Suite

The VINSE Imaging Suite, located in a 23-foot deep basement in the Engineering and Science Building (ESB) hosts our advanced optical instrumentation in a space that minimizes ambient noise, vibration and electromagnetic field levels for best imaging resolution. The imaging suite provides high-bay spaces with 16-foot clearances that will easily accommodate future microscopes.

- FEI Tecnai G2 Osiris TEM/STEM (60-200 kV) equipped with SuperX EDS system, Fischione tomography holder with Amira, Aduro Protochips in situ heating holder, Gatan in situ heating holder
- Model 1020 Plasma C.1 (s)-8 [(200)-1 Tc 0.194 Tw (i)3,-12.1(u8TT2 C)Td 747 0 2 (l)3.1 b (r)-6.3 (ot)-13.2 (oc)-8 1.