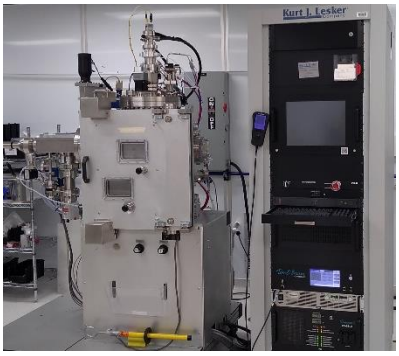
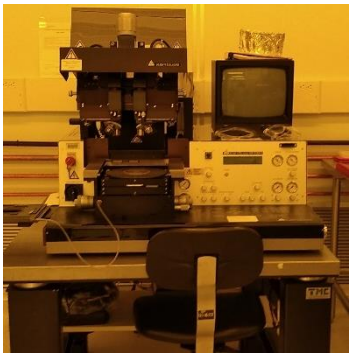
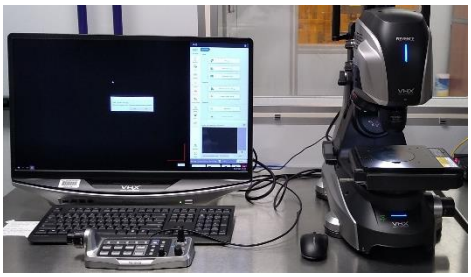
MICROFABRICATION FACILITIES (CRF)

https://sharedresearchfacilities.wvu.edu/facilities/cleanroom

OVERVIEW

The Cleanroom Facilities (CRF) consist of two facilities - a 2100 sq-ft facility providing class 100, 1,000 and 10,000 spaces in the Engineering Science building on the Evansdale campus and, a 1,160 sq-ft facility providing class 1,000 and 10,000 spaces in White Hall on the Downtown campus. The facilities have equipment for UV lithography, physical vapor deposition including sputter, evaporation, and pulsed laser deposition, wet chemical processing, reactive ion etch, thermal processing, inspection, process metrology, dicing and wire-bonding. Users can be trained to use the equipment independently. The CRF staff can also provide consultancy and fabrication services.



KJL evaporation system (left), Karl Suss MA6 UV aligner (center) and Keyence VHX-7000 digital microscope (right)

REPRESENTATIVE EQUIPMENT

- Karl Suss MA6 and MJB3 mask aligners
- KJL Lab 18 E-beam evaporator
- DC and RF sputtering system
- Neocera PLD
- AnnealSys AS-Micro Rapid Thermal Annealer
- DISCO DAD-3240 wafer dicer
- Trion Technologies Minilock III ICP RIE
- Lindberg Blue M thermal oxidation furnace
- Bruker Contour GT KO optical profilometer
- Keyence VHX-7000/7000N Digital Microscope
- Bruker Dektak Stylus Profilometer
- Westbond Die and Wire bonders

CONTACTS

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