Available Equipment

- JEOL JSM Scanning Electron Microscope with 5,000 N tensile stage
- Malvern Bohlin Gemini II Rheometer
- TA Instruments DMA Q800, TA Instruments TGA Q50, TA Instruments M/DSC Q20, TA Instruments Q400 TMA
- Custom C-Scan System, 5 - 25 MHz, 1/800th mm x-y resolution
- Vacuum pump system (VARTM) for fabricating laminated composites
- CTE M7000 Constant Speed Mixer, API Spec 10
- Plasma Etch PE50-HF
- 30K MTS tensile test load frame (dept. resource)
- Desktop Instron with 10lb and 450lb cells
- Leica binocular/stereo microscope
- MZ7 Microzoom 10x-1000x magnification, 10 MP video imaging
- Multiple Dino-Lite Polarizing portable microscopes
- Non-contact 3D digitizer/scanner – NextEngine 3D (dept. resource)
- Buehler EcoMet Grinder-Polisher and Buehler IsoMet Low Speed Saw (dept. resource)
- Arburg 70 ton injection molding machine with 5 molds
- Blue M LO-225 8 cu. ft. furnace
- Carbolite split tube furnace for MWNT CVD fabrication
- Brabender mixing unit and Ross mixing unit
- DSM X-Plore Injection molding machine
- Tinius Olsen Meltflow Indexer – MP600
- Makerbot Replicator 2 and 2x, and SolidDoodle 3D Printers
- Compression molding 60 ton hot press
- CNC with 4 axis capability (dept. resource)
- Nine high performance workstations (most are Intel i7 or Xeon 8-core), each 3.06 GHz or higher, with 32, 64 or 256 GB of ram
- 6 node portable desktop cluster, 12 cores, CUDA cards
- Full access to Baylor’s HPC with 128 nodes of dual Xeon 5355s with 16 GB ram per blade (Baylor resource)