



THE UNIVERSITY of NORTH CAROLINA
GREENSBORO

**DEPARTMENT OF BIOLOGY
HUMAN BIODIVERSITY LAB
DR. GWEN ROBBINS SCHUG**

EQUIPMENT LIST*

Osteometrics

- Mitutoyo Digital Calipers with foot pedal
- Digital spreading calipers
- Mitutoyo vernier calipers
- Carolina Biological Osteometric Board

3D Scanning, Printing, and Analysis

- Artec Leo 3D Laser Scanner, Artec Studio Software license, rotary table, case
- 2022 Revopoint Mini 3D Scanner, tripod, turntable (0.02mm precision, 10 FPS speed)
- Anycubic Kobra Max Large Build Size (max build z=17.7" x=15.7" y=15.7")
- Formlabs 3+ high resolution 3D printer
- Formlabs Form Wash
- Formlabs Form Cure
- Post-processing materials including a Dremel and painting supplies.

Biomaterials Preparation for Hard Tissue Histology

- Precision Buehler IsoMet low speed saw (11-1280-160) with adjustable micrometer, 800 g weight set, a variety of chucks for long and irregular samples, 4" CBN HC blade
- Automatic Buehler Minimet 1000 cross-section polisher/grinder (69-1000) with 120/240 universal voltage, with 1.25" petrographic slide mount, and diamond pastes

Imaging and Analysis

- Camera, tripod, lightbox, lighting
- 1 iPad Pro, MacBook Pro, 2 x iMac, 2 x Dell generic workstations, 3 x Dell Precision 3660 PC workstations (12th Gen Intel Core i7, 16 cores, 3.60 GHz; Windows 10; 48 GB DDR5 RAM; NVIDIA RTX A6000, 48 GB GDDR6 Video Card; 2 TB SSD Memory; Wireless)
- Dino Lite AM 5218MZT HD/DVI Polarizer Microscope with Adjustable Vertical Mount
- Motic BA310 Polarized Light Trinocular Microscope with C-mount adapter and 1080p 2 MP High Definition Microscope Camera with remote
- Dragonfly Micro CT processing software

* Additional resources found in the Core Facilities at the Joint School of Nanoscience and Nanoengineering (<https://jsnn.ncat.uncg.edu/jsirt-core-facilities/>)