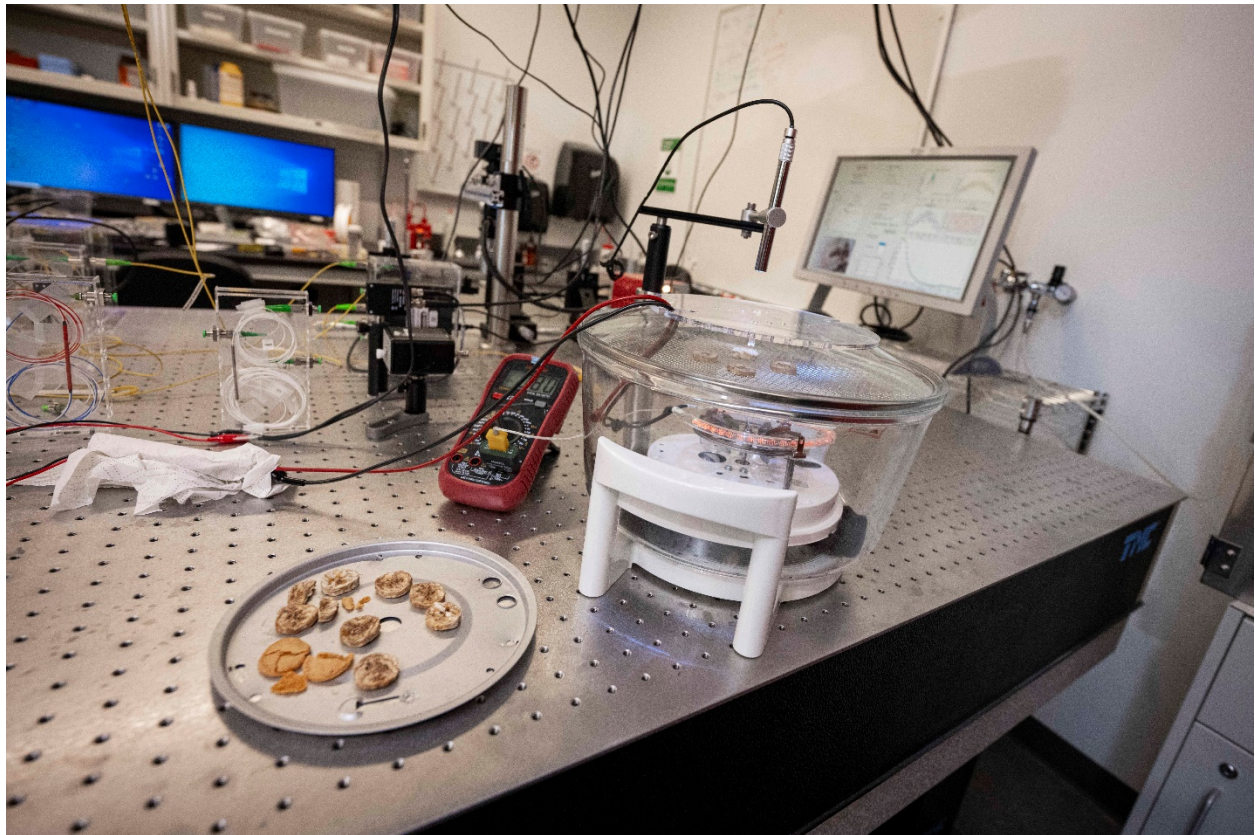
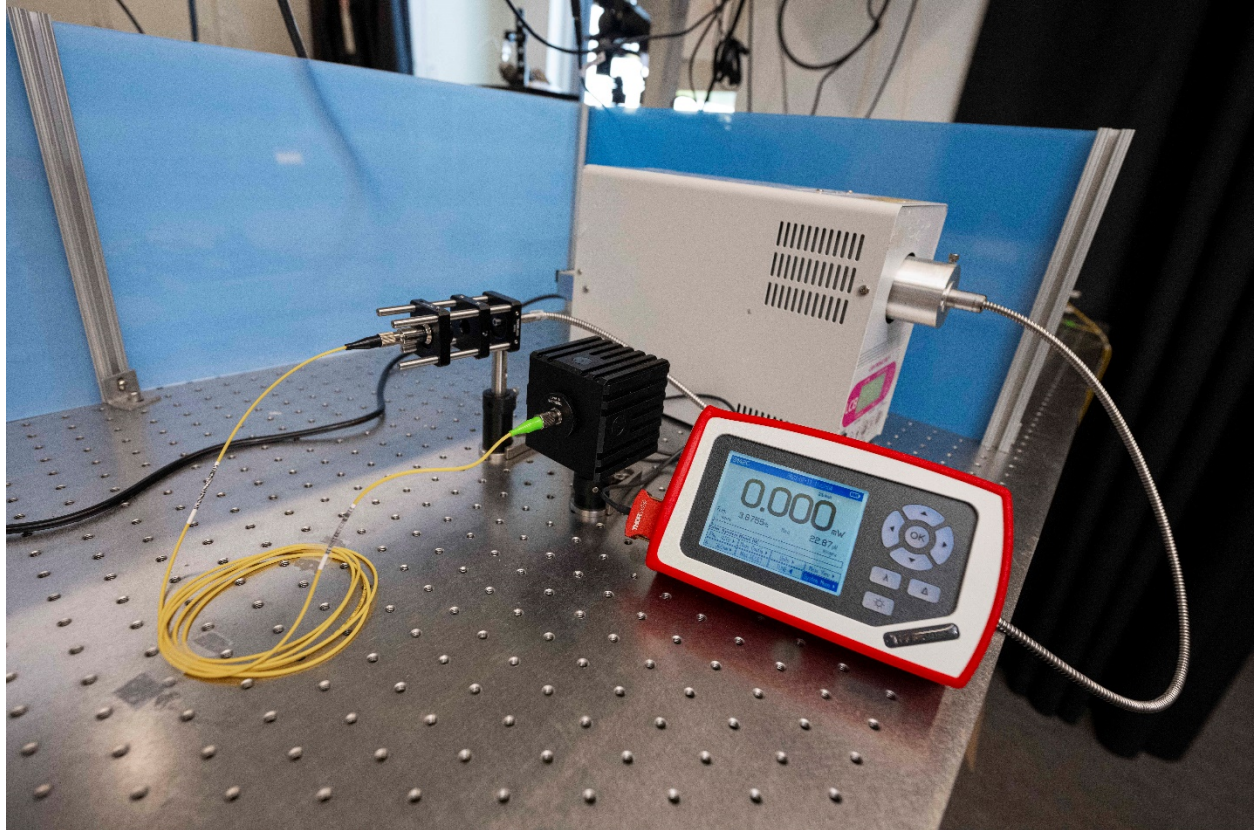


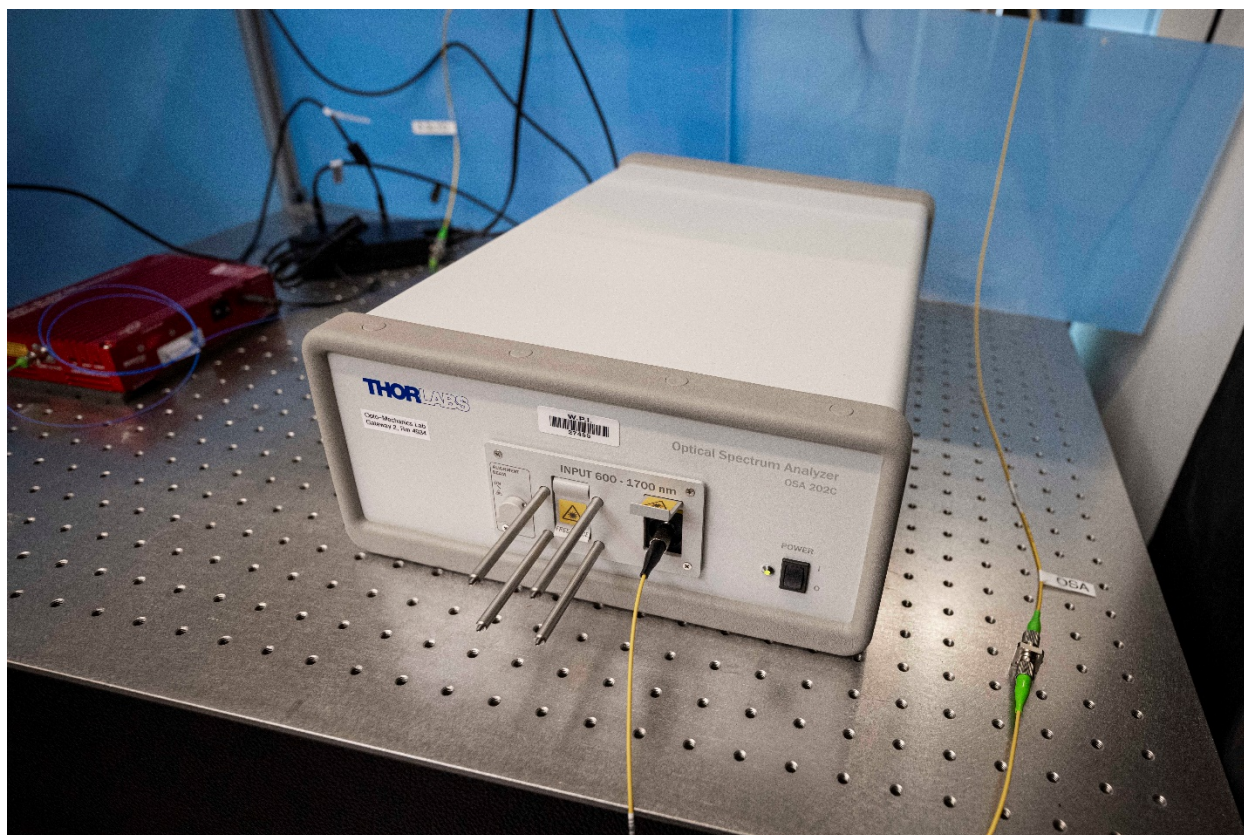
Photos of Equipment Taken at UIUC



Custom dryer for banana slice drying with continuous computer vision and fiber sensor data display, for real-time drying process monitoring



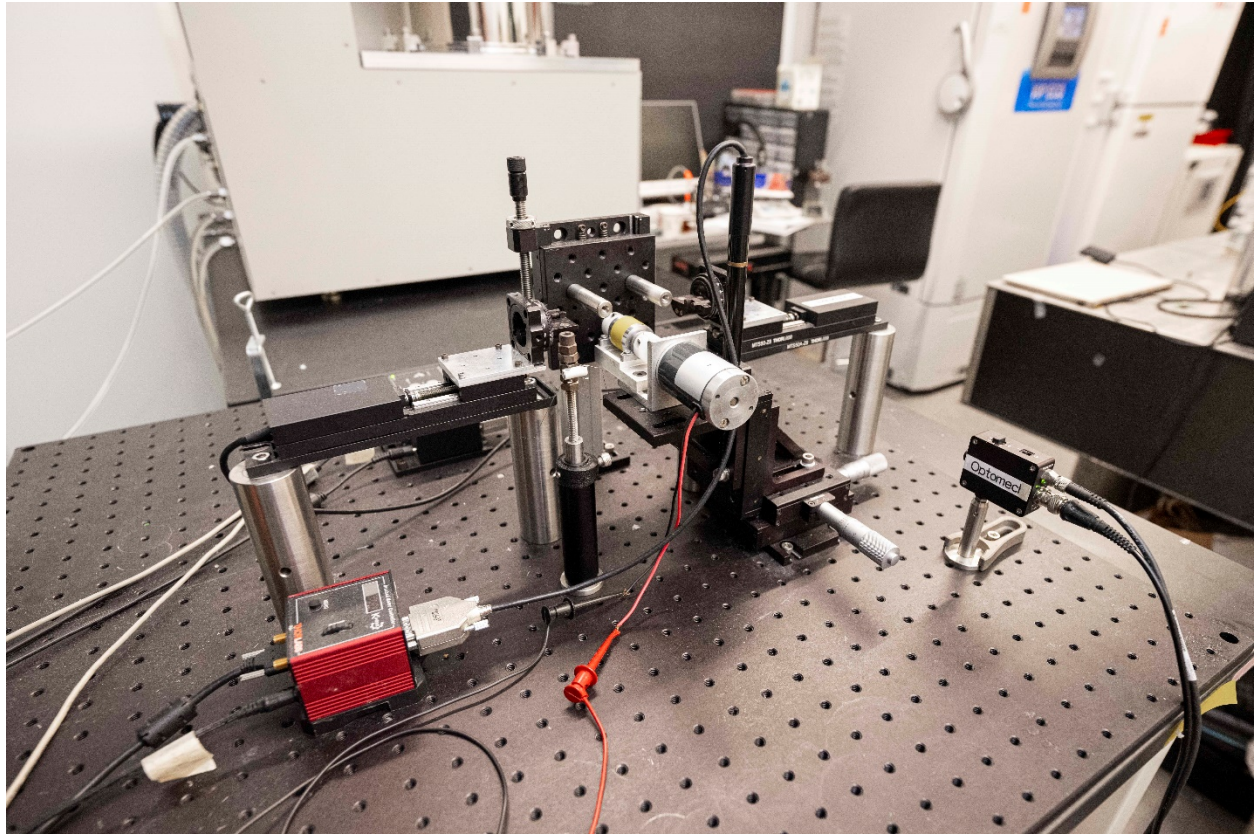
UV light source and light coupling system into an optical fiber, for fiber tip customization, fiber sensor fabrication, and optical beam control



Optical spectrometer with a wavelength range of 600-1700 nm for both fiber-coupled and free-space spectroscopy



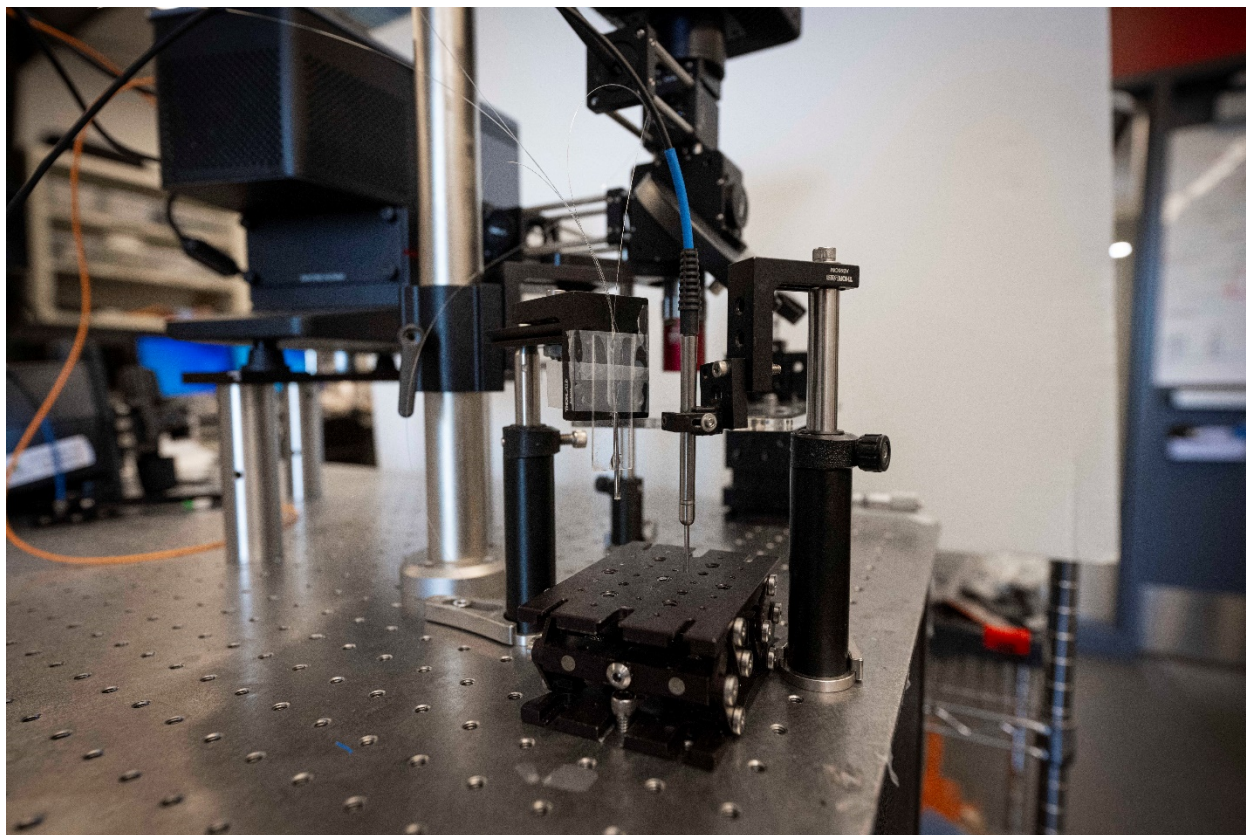
Millipore deionized water system for chemical and biological sample preparation



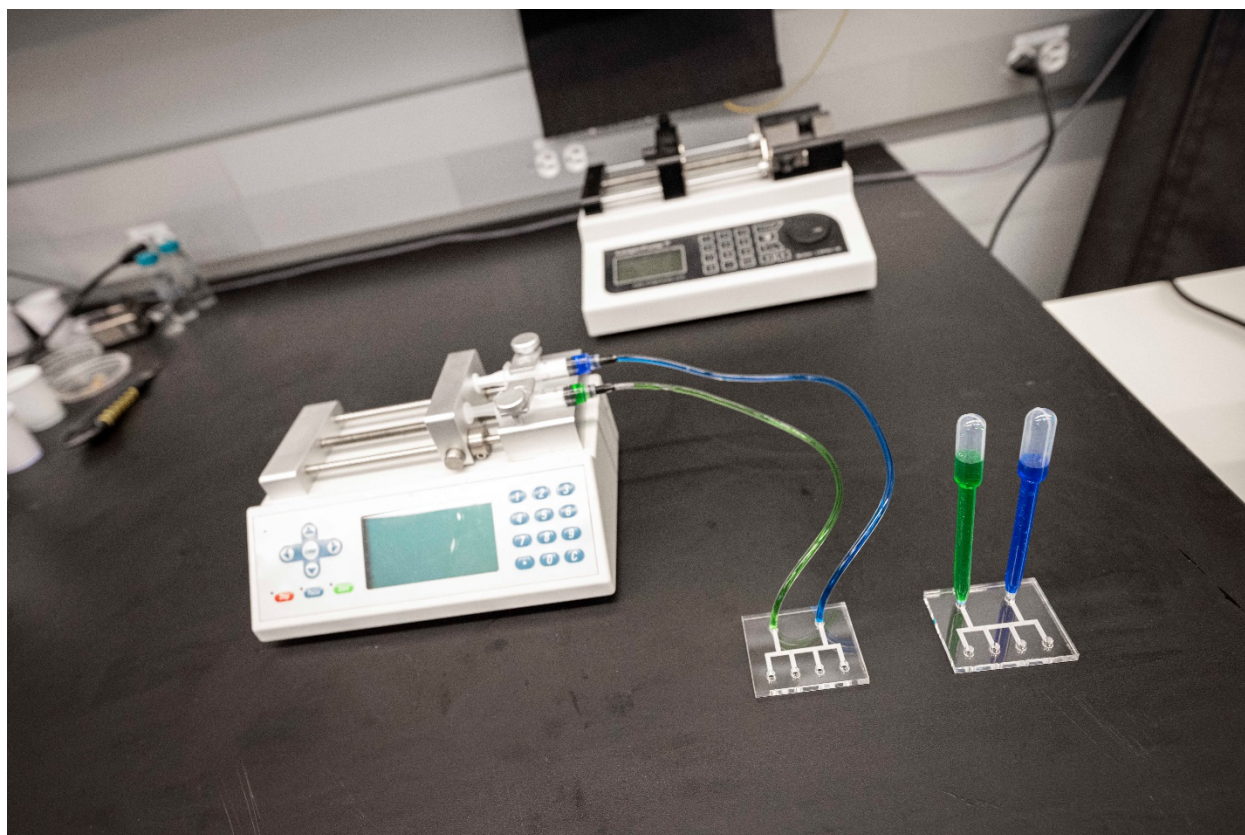
Custom fiber customization system, which facilitates sidewall fiber polishing and heat-and-draw fiber taper, for fiber sensor development.



Microbiology equipment: biosafety cabinets, table-top autoclave, and bacteria shaking incubator



Various custom and commercial fiber optical spectroscopic probes and microscopes for Raman and Near Infrared (NIR) spectroscopy



Custom acrylic-tape and acrylic-acrylic microfluidic chips for portable food safety detection



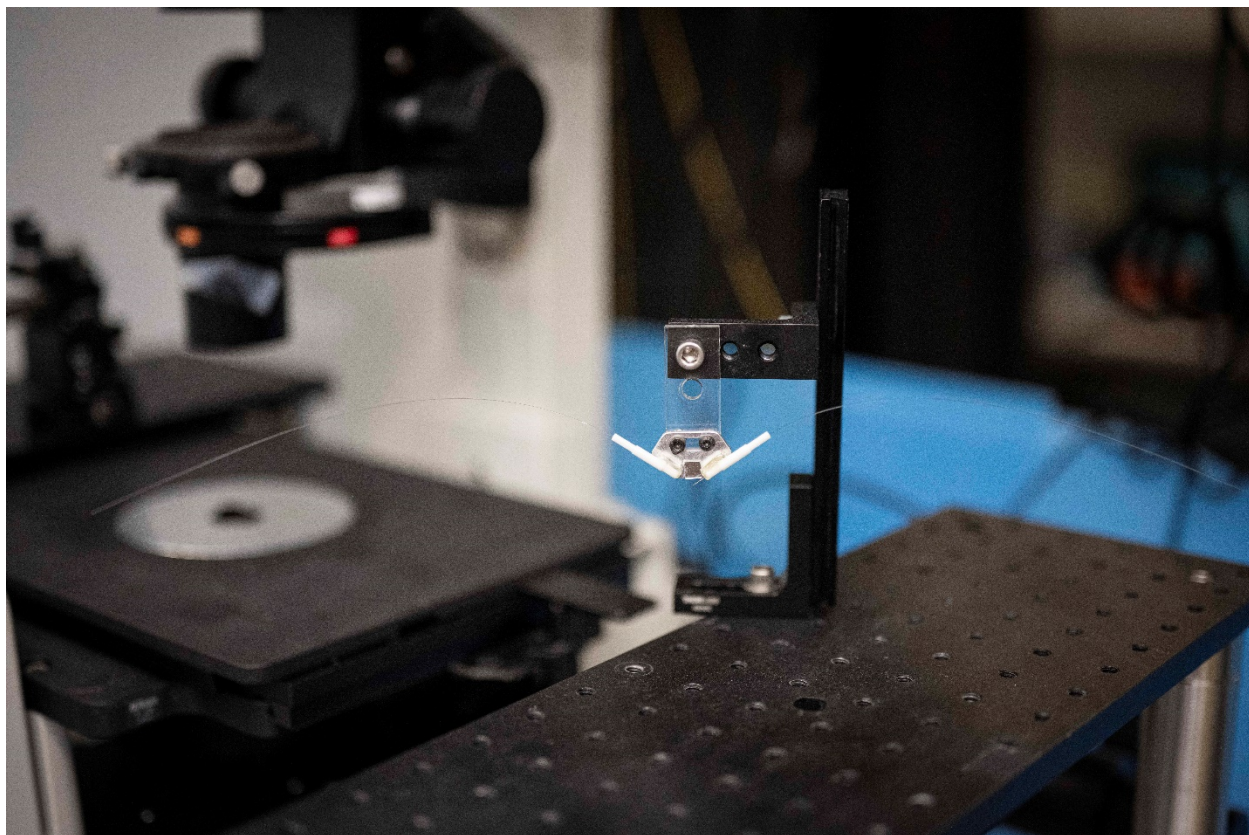
RF sputtering machine for thin (<10 nm resolution) film deposition and fiber sensor functionalization



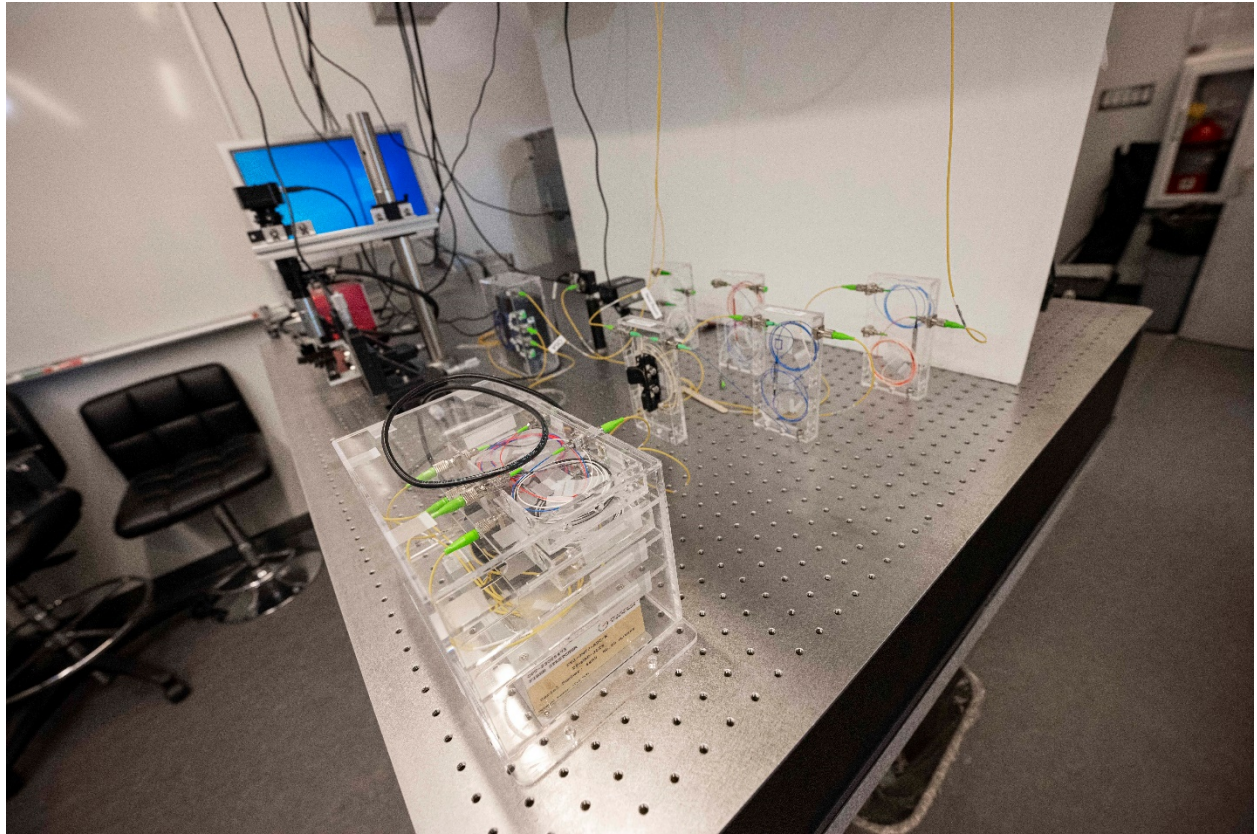
Cell incubator with environment (temperature, humidity, and gas) control.



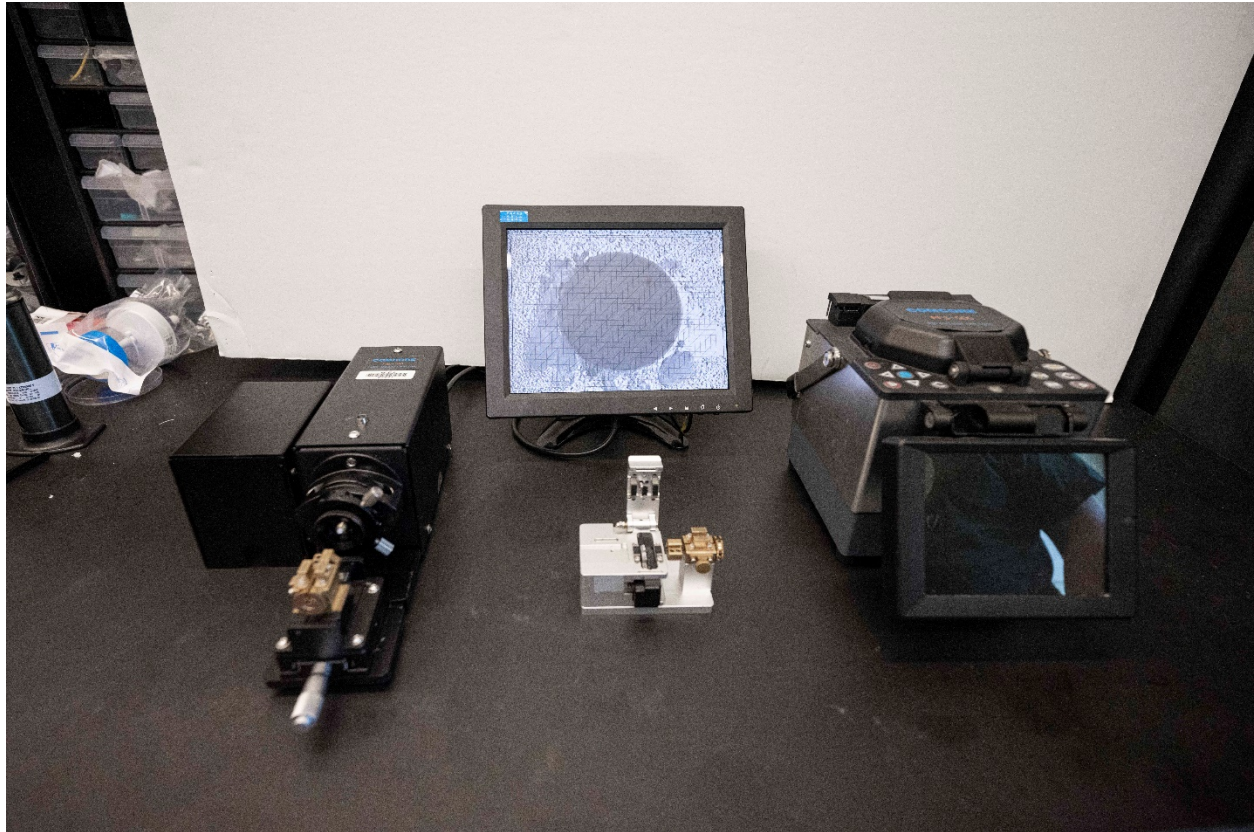
Custom gas chamber for humidity and gas sensor calibration and demonstration.



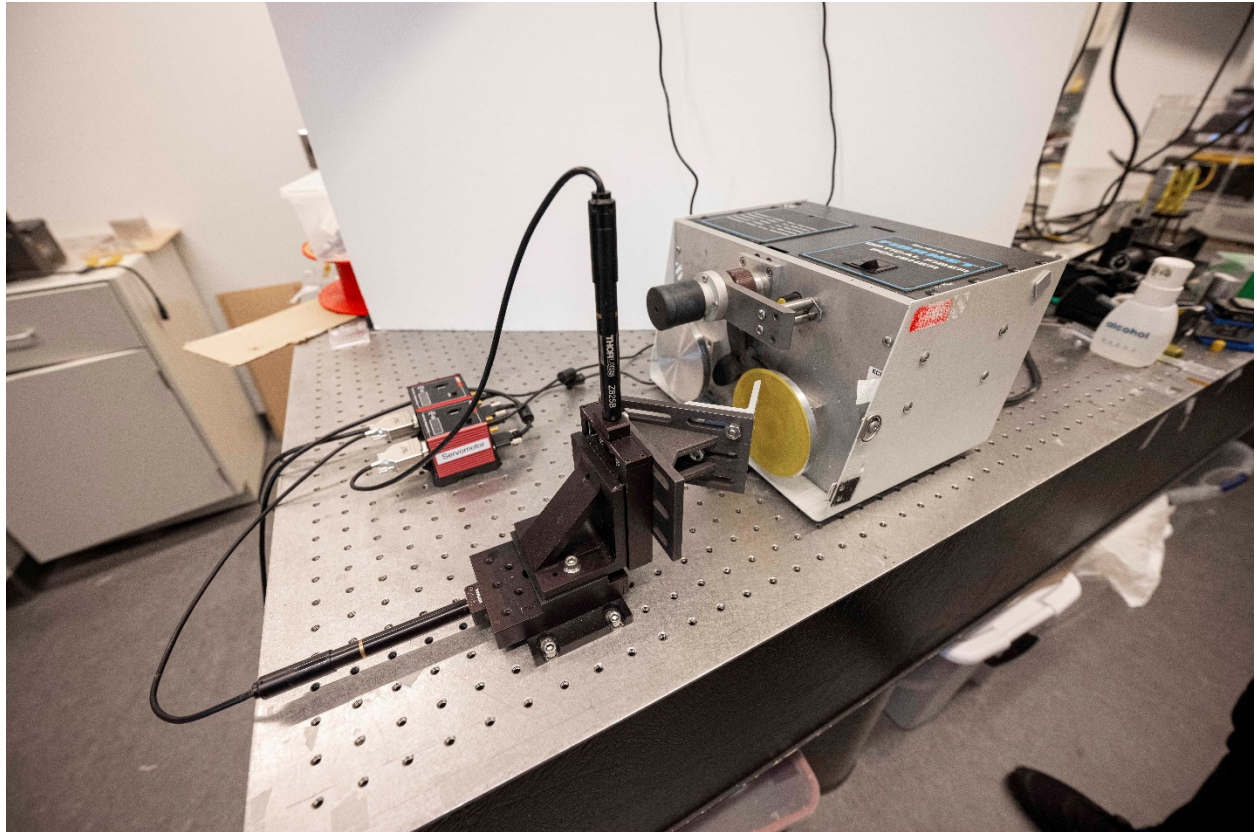
Module, miniature all-fiber optical trapping system for micro/nanoparticles trapping in water and gas



Fiber optical sensor readout system facilitating 1) sensor multiplexing, 2) optical phase modulation and demodulation, and 3) wireless fiber sensor readout



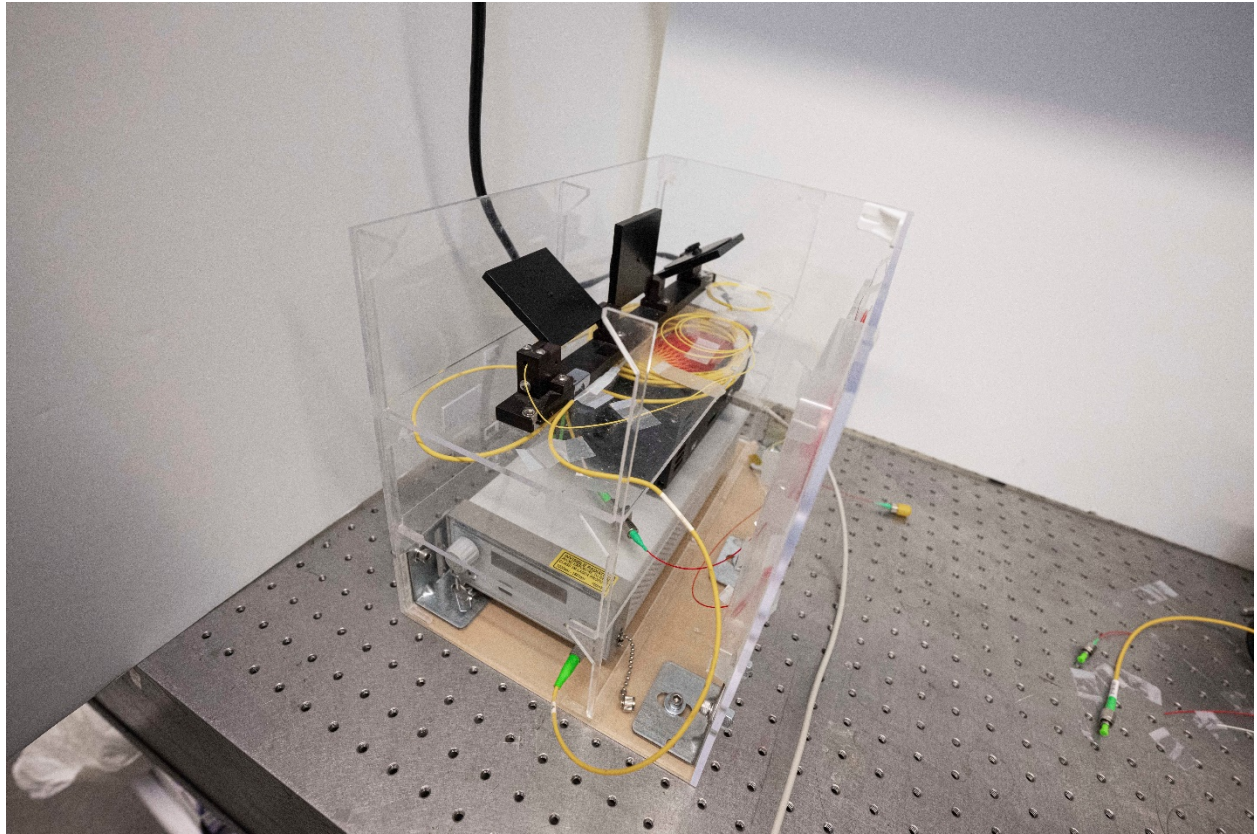
Polarization-maintaining (PM) optical fiber cleaver and splicer to recollect single-mode fibers and PM fibers



Custom fiber tip polishing system for fiber tip shaping and sensor development



-80 °C freezer for biological sample storage



Portable fiber sensor readout system