






EQUIPMENT AND THEIR FUNCTIONS IN 42-C10A Multiscale Thermal Transport Lab

EQUIPMENT	EQUIPMENT NAME	EQUIPMENT FUNCTION
	<p>Nanoemulsion based absorption system for waster heat utilization</p>	<p>Support senior capstone project on renewable energy</p>
	<p>Customized Geothermal system loop</p>	<p>Support senior capstone project on renewable energy and additive manufacturing</p>

EQUIPMENT	EQUIPMENT NAME	EQUIPMENT FUNCTION
	<p>Convective heat transfer testing loop</p>	<p>Support research on micro-channel heat exchanger and senior capstone project on additive manufacturing and renewable energy</p>
	<p>Nucleation characterization station with synchronized IR and Optical camera</p>	<p>integrated high-speed camera, high-speed IR thermography, and National Instrument data acquisition system for measuring the melting pool of during AM build process.</p>
	<p>Chemical fume hood, sink and common chemical labware</p>	<p>Support material preparation for research and senior capstone projects</p>

EQUIPMENT	EQUIPMENT NAME	EQUIPMENT FUNCTION
	<p>Inertia Gas Glovebox</p>	<p>It supports the experiments requiring controlled gas environment for research purpose and senior capstone projects</p>