



Professor Tae-Youl Choi

Department of Mechanical and Energy Engineering

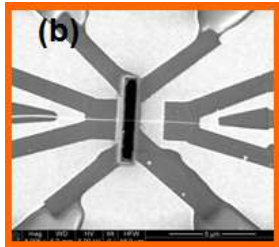
Graduate Program Coordinator

Micro/Nanoscale Manufacturing and Thermal Science: carbon-based 1D and 2D materials, cellular thermal properties

Research Group: 6 Ph.D. Students, 2 M. S.

Funding: Federal and International research funding

Manufacturing



Microfab & Nanofab

**Photolithography
FIB milling**



Sensor Fabrication

Nanoscale
Control

3D Printing

**FDM based
PEEK Printing
Biomedical**

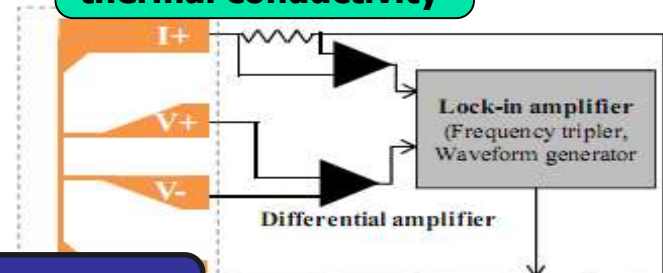
Micro & Nano
Manufacturing

Small Scale
Instrumentation

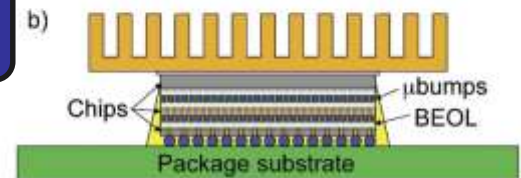
Micro sensing

Characterization

**3 Omega Method for
thermal conductivity**



Thermal Interface Resistance



**Cell Thermal conductivity
Disease Model
Cancer Diagnosis**

