

# 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

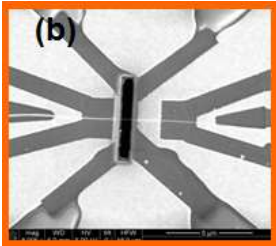
Research Group: 6 Ph.D. Students, 2 M. S.

Funding: Federal and International research funding



## Manufacturing

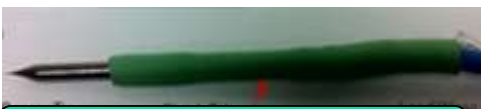
## Characterization



**Microfab & Nanofab**

**Photolithography  
FIB milling**

Micro & Nano  
Manufacturing



**Sensor Fabrication**

Nanoscale  
Control

Micro sensing

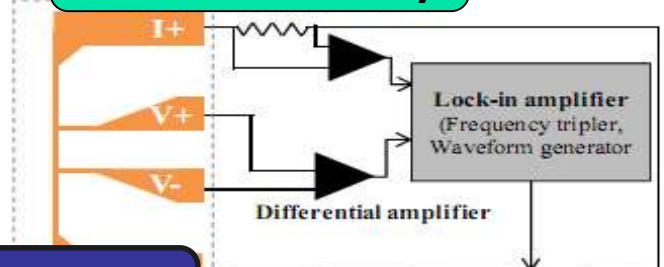
Small Scale  
Instrumentation

**3D Printing**

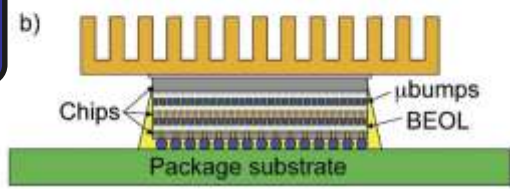
**FDM based  
PEEK Printing  
Biomedical**



**3 Omega Method for  
thermal conductivity**



**Thermal Interface Resistance**



**Cell Thermal conductivity  
Disease Model  
Cancer Diagnosis**

