

## Feng Jiang

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### Research Theme

Polymer and Natural Materials and Manufacturing (PNMM)

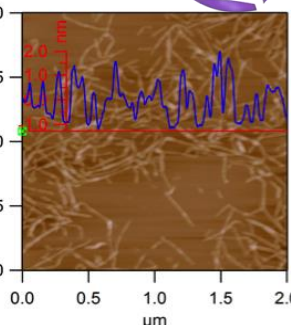
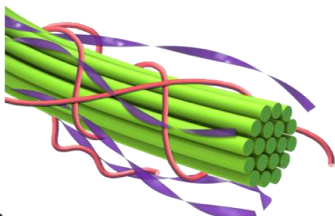
### Research Areas

- Bio-based nanomaterials
- Surface modification
- Self-assembly
- Biomimicry
- Nanocomposites
- Thermal insulation
- 3D printing
- Hydrogel/aerogel
- Water treatment

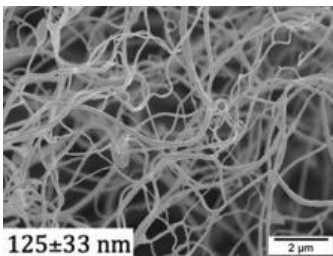
### Research Facilities/Tools

- 3D printer
  - Bio-based nanomaterials synthesis and characterization facilities
- To be purchased (CFI approved)
- Quartz crystal microbalance with dissipation monitoring (QCM-D)
  - Ultra-low temperature (-105 °C) freeze-dryer
  - Thermal conductivity testing system
  - Electrochemical testing platform

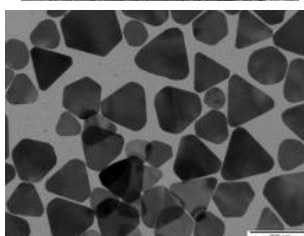
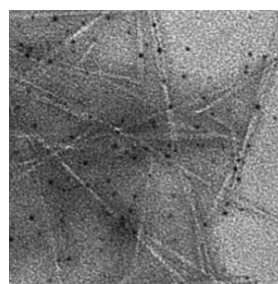
### Bio-based nanofibrils



### Self-assembly



### Functional materials



### Ultrastrong fibres

