

# Research, Informatics and Graduate Studies

<https://sites.gtiit.edu.cn/research/positions/rf-2024002/>

## Research Fellow Position in Catalytic Hydrogenation of Biomass or Biomass-derived Platform Molecules into High-value Fine Chemicals. Contract duration: 2-3 years

The Chemical Engineering Program (group of Xi Gao), is looking for 1 research fellow to conduct research projects in the catalytic hydrogenation of biomass or biomass-derived platform molecules into high-value fine chemicals. Contract duration: 2-3 years

1. Catalytic hydrogenation of biomass or biomass-derived platform molecules into high-value chemicals, with application in polymer, cosmetic, pharmaceutical, and food, 2. Novel catalysts preparation and Characterization 3. DFT investigation of catalytic mechanism.

### Project Details

The main objective of the project is to (1) Catalytic hydrogenation of biomass or biomass-derived platform molecules into high-value chemicals, with application in polymer, cosmetic, pharmaceutical, and food, (2) Novel catalysts preparation and Characterization (3) DFT investigation of catalytic mechanism.

Group Website: <http://gaoxlab.com>

2. Novel catalysts preparation and Characterization (2) DFT investigation of catalytic mechanism.

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### Keywords

Catalytic Hydrogenation; Biomass; DFT; Machine Learning

### Selection Criteria

- PhD or Master's degree in Chemical Engineering, Chemistry, Material Engineering, or in a relevant engineering and Science discipline (no more than 5 years after completed the doctoral degree)  
(2024.05.01-2024.05.05)
- Strong background in catalysis (preferable)
- Good communication skills, good command of English (essential)
- Ability to work independently as well as in a team environment (essential)
- Ability to author/co-author high-quality scientific publications (essential)

### Application

- Application deadline: Open till filled
- Contact: Prof. Xi Gao (Email: [xi.gao@gtiit.edu.cn](mailto:xi.gao@gtiit.edu.cn))

### Program

Chemical Engineering

### Contact

Assoc. Prof. Xi Gao

Email: [xi.gao@gtiit.edu.cn](mailto:xi.gao@gtiit.edu.cn)

[Web Page Link](#)

### Application Deadline

Open till filled

### Date posted

March 1, 2024

### Location

Guangdong Technion - Israel Institute of Technology (GTIIT), China & Technion-Israel Institute of Technology, Israel.