

Research, Informatics and Graduate Studies

<https://sites.gtiit.edu.cn/research/positions/rf-2023004/>

Research Fellow Position in Catalytic Conversion of Biomass/Plastic – Group of Assoc. Prof. Xi Gao

The Chemical Engineering Program (group of Xi Gao), is looking for 1 research fellow to conduct research projects in the catalytic conversion of biomass/plastic into high-value fuels, chemicals, and materials. Contract duration: 2-3 years

1. Catalytic conversion of plastic into hydrogen and low-carbon fuels; 2. Catalytic conversion of biomass into high-value fuels (such as jet fuels), chemicals (such as polyols, sugars, phenols) and carbon materials, etc.; 3. Catalytic hydrogenation of biomass-derived molecules into high-value chemicals, with the application in cosmic, pharmaceutical, and food; 4. DFT investigate of catalytic mechanism.

Project Details

The main objective of the project is to (1) catalytic conversion of plastic into hydrogen and low-carbon fuels, (2) catalytic conversion of biomass into high-value fuels (such as jet fuels), chemicals (such as polyols, sugars, phenols) and carbon materials, etc., (3) catalytic hydrogenation of biomass-derived molecules into high-value chemicals, with the application in cosmic, pharmaceutical, and food, (4) DFT investigate of catalytic mechanism.

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

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Keywords

Catalytic Conversion; Plastic; Biomass; Hydrogenation; DFT; Machine Learning

Chemical Engineering; Catalysis; Biomass; Plastic; Hydrogenation; DFT; Machine Learning

Selection Criteria

- PhD or Master's degree in Chemical Engineering, Chemistry, Material Engineering, or in a relevant engineering and Science discipline
- 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)

Program

Chemical Engineering

Contact

Assoc. Prof. Xi Gao

Email: xi.gao@gtiit.edu.cn

[Web Page Link](#)

Application Deadline

Open till filled

Date posted

October 11, 2023

Location

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