# Research, Informatics and Graduate Studies

https://sites.gtiit.edu.cn/research/positions/gs-2023006/

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### **Description**

The Chemical Engineering Program (group of Xi Gao), is looking for two PhD/Master candidates to conduct research projects in the catalytic conversion of biomass/plastic into high-value fuels, chemicals, and materials. Contract duration: 2-3 years for Master and 3.5-4 years for PhD.

#### **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; Mahine Learning

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#### **Selection Criteria**

- (MS program) Bachelor's degree in Chemical Engineering, Chemistry, Material Engineering, or in a relevant engineering and Science discipline (essential)

The PhD/Master candidate must fulfill the requirements for admission to the

#### **Position**

PhD/Master

#### **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.

#### Fees & Finance

How to Apply

Technion Graduate School and needs to comply with its regulations leading to the PhD/Master degree: <a href="https://graduate.technion.ac.il/en/prospective-students/">https://graduate.technion.ac.il/en/prospective-students/</a>

# **Application**

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