

Research, Informatics and Graduate Studies

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

PhD/Master (MSc) Positions in Catalytic Conversion of Biomass/Plastic (GS-2023006) – Group of Assoc. Prof. Xi Gao

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.

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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>

1-3 years for Master and 3.5-4 years for PhD.

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Keywords

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

2-3 years for Master and 3.5-4 years for PhD.

Selection Criteria

- (PhD program) Master's degree (or equivalent) in Chemical Engineering, Chemistry, Material Engineering, or in a relevant engineering and Science discipline (essential) 2-3 years for Master and 3.5-4 years for PhD.
- (MS program) Bachelor's degree in Chemical Engineering, Chemistry, Material Engineering, or in a relevant engineering and Science discipline (essential) 2-3 years for Master and 3.5-4 years for PhD.
- Strong background in catalysis (preferable) 2-3 years for Master and 3.5-4 years for PhD.
- Good communication skills, good command of English (essential) 2-3 years for Master and 3.5-4 years for PhD.
- Ability to work independently as well as in a team environment (essential) 2-3 years for Master and 3.5-4 years for PhD.
- Ability to author/co-author high-quality scientific publications (essential) 2-3 years for Master and 3.5-4 years for PhD.

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

Position

PhD/Master

Program

Chemical Engineering

Contact

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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

