

# Research, Innovation and Graduate Studies

<https://sites.gtiit.edu.cn/research/positions/rf-2021008/>

## Research Fellow Position in Materials Under Extreme Conditions (RF-2021008) – Group of Assoc. Prof. Elissaios Stavrou

The Materials and Science Engineering Program (group of Prof. Elissaios Stavrou) is looking for one scientist to lead experimental research projects in novel materials under extreme conditions.

Contract duration: initially for one year, renewable up to three years.

### About the University

The Guangdong Technion – Israel Institute of Technology (GTIIT) is a Sino-foreign cooperative educational institution established by Shantou University (STU) and the Technion – Israel Institute of Technology with independent legal status. GTIIT is located in the city of Shantou, Guangdong province. A brainchild of Technion – Israel Institute of Technology, Guangdong Technion – Israel Institute of Technology will become a leading science and technology research university by leveraging the power of entrepreneurship and innovation with rich China culture. Technion is world-renowned for its exceptional research and education. Since 2004, three faculty members in Technion received the Nobel prize, consistently ranked as a top-100 university.

### Project Details

The focus of the group is to synthesize “materials by design” that are precisely tailored to offer specific properties and be used in specific applications. One way to overcome present barriers in the synthesis of materials is to alter the fundamental chemistry that governs the relevant chemical systems. In this context, tuning the composition of a given chemical system beyond a thermodynamically stable one at ambient conditions represents an extremely promising approach. Such materials have the potential to provide the fundamental knowledge needed to enable the development of next-generation technologies. In addition to the formation of novel compounds with enhanced properties, such studies are applicable to interdisciplinary basic research outstanding scientific questions.

We work in a collaborative international environment; the working language is English.

### Keywords

High pressure and temperature, Chemistry under Extreme, Novel synthesis approaches and materials, Ultrafast chemical dynamics

### Selection Criteria

- PhD degree in Physics, Chemistry, Material Science, or related field (essential)
- Strong interest to work temporarily at large-scale research facilities in China, Europe, United States and Japan (essential).
- Strong interest in synthesis of novel materials under extreme conditions (essential).
- Strong background in condensed matter chemical physics (preferable).
- Previous experience in X-ray diffraction and vibrational spectroscopy (preferable).
- Previous experience in high-pressure experimental techniques (preferable).
- Good communication skills, good command of English (essential).

### Program

Materials Science and Engineering

### Research Area

High pressure and temperature, Chemistry under Extreme, Novel synthesis approaches and materials, Ultrafast chemical dynamics

### Contact

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[Webpage Link](#)

### Application Deadline

Open till filled

### Date Posted

12 November 2021

### Location

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

- Ability to work independently as well as in a team environment (essential).
- Ability to author scientific reports and scientific publications (essential).

## Benefits

- – Total annual salary: RMB 330,000 up / year (depending on qualifications of the candidate, including government subsidy)

Extra benefit:

- housing at GTIIT, China (Rental paid by candidate)
- Kid schooling fee subsidized or qualified kids can enroll in GTIIT AIS
- Annual health check
- Professional conference travel allowance
- Professional assistance offered to apply for Talent fund and Research fund
- Qualified candidate can receive RMB 140,000 living subsidy
- Work life balance
- World class Faculty team mentoring,
- Advanced lab equipment and devices

## Application

- Application deadline: **Open till filled.**
- Send below required documents electronically to:  
[elissaios.stavrou@gtiit.edu.cn](mailto:elissaios.stavrou@gtiit.edu.cn)

1. CV (including publication list) and a short research plan outline (up to one page in length).
2. Contact details for three letters of recommendation (one from the PhD mentor)
3. Degree certificates with certified English translation for both the PhD and Master's degrees