

# Research, Informatics and Graduate Studies

<https://sites.gtiit.edu.cn/research/positions/rf-2022005/>

## Research Fellow (Postdoc) Position in Hydraulic Systems and Internal Combustion Engines (RF-2022005) – Group of Assoc. Prof. Damiano Padovani

This position refers to the GTIIT's Mechanical Engineering and Robotics Department. We have access to top-tier test facilities to conduct cutting-edge research on combustion engine and fluid-driven robotic manipulators. Our main areas of interest are about design, manufacturing, sensing, and control of both heavy-duty manipulators and soft robots. We are therefore hiring a research fellow to develop our research.

Contract duration: Initially for one year, renewable subject to satisfactory performance.

### About the University

**Guangdong Technion-Israel Institute of Technology (GTIIT)** is a public technological institute and non-profit research university in Shantou, Guangdong province, China. GTIIT is the first Sino-foreign cooperative university with an independent legal personality to introduce high-quality higher education resources from the Technion-Israel Institute of Technology. Technion is a prestigious public research university based in Haifa-Israel, well-known for research innovations. Since 2004, Technion has celebrated three Nobel Prize laureates and is consistently ranked as a top-100 university. The vision of GTIIT is to become a world-class international university, conducting cutting-edge research in science and technology.

### Duties and Responsibilities

This open position requires the following duties and responsibilities:

- Develop innovative research under the guidance of faculty members.
- Make any reasonable effort to become a successful researcher.
- Support the preparation of research papers as the main author and/or as a co-author.
- Identify, purchase, and supervise the installation of equipment for the experiments.
- Support the development and correct functioning of experimental test-beds.
- Propose new ideas to support innovative research.
- Search and study useful material (papers and books) to support innovative research.

Participate in the laboratory activities (internal meetings or requested duties).

### Keywords

Internal combustion engines, robotics, hydraulic systems, applied control, excavators

### Selection Criteria

- PhD degree in Mechanical Engineering or any relevant discipline (essential).
- Strong background with prior experience in at least one of the following main areas (essential):

### Program

Mechanical Engineering (Robotics)

### Contact

Assoc. Prof. Damiano Padovani

Email:

[damiano.padovani@gtiit.edu.cn](mailto:damiano.padovani@gtiit.edu.cn)

[GTIIT faculty profile](#)

### Application Deadline

Open till filled

### Date posted

November 30, 2022

### Location

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

- Internal combustion engines.
- Hydraulic systems and/or robotics.

– Experience in handling 1D simulation in software such as Simulink, Amesim or Gt-Power (preferred).

– Good communication skills, good command of English (essential).

– Ability to work both independently and in a team environment (essential).

– Ability to author/co-author scientific reports and publications (essential).

– Willingness to participate in other research projects (essential).

### **Benefits**

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

Extra benefits:

- Professional conference travel allowance
- Qualified candidate may receive additional subsidies (subject to approval of the provincial government)
- Professional assistance offered to apply for Talent fund and Research fund
- Housing at GTIIT, China (Rental paid by candidate)
- Kid schooling fee subsidized or qualified kids can enrol in GTIIT AIS
- Annual health check
- Work life balance
- Advanced lab equipment and devices

### **Application**

Application deadline: **Open till filled**

Send below required documents electronically to: [damiano.padovani@gtiit.edu.cn](mailto:damiano.padovani@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 English translation

Should you need more details, please contact Assoc. Prof. Damiano Padovani: [damiano.padovani@gtiit.edu.cn](mailto:damiano.padovani@gtiit.edu.cn) or Assoc. Prof. Pavlos Dimitriou: [pavlos.dimitriou@gtiit.edu.cn](mailto:pavlos.dimitriou@gtiit.edu.cn)