**Note:**

**Version: PhD/Master combined, please modify accordingly if only for PhD or Master.**

**PhD / Master (MSc) Positions in** **Spintronic Materials**

**Group of Prof. XXX**

**at Guangdong Technion (China) and Technion (Israel),**

**Israel Institute of Technology**

The Materials Science and Engineering Program (group of XXX) *(XXX refers to researcher’s name)* is looking for X *(put no. here)* PhD/Master students to conduct experimental research projects in spintronic materials related to future data storage and processing electronics. Contract duration: 3 + 1 years.

**Project Details:**

Modern facilities for the growth of thin film samples using ultrahigh-vacuum sputtering and atomic layer deposition as well as state-of-the-art laboratory thin film characterization tools (X-ray diffraction, X-ray reflectometry, SQUID magnetometry) will be available. Our group extensively uses leading international Quantum Beam facilities (neutron/synchrotron science facilities and ion beam accelerators) as major research tools to develop materials for next-generation spin based electronic devices. Our specialty technique is polarized neutron reflectometry. We work in a collaborative international environment.

**Keywords:**

Spintronic materials, energy efficient processing and storage of electronic data, magnetic nanostructures, multiferroics, magnetic oxide films, stress/defect engineering of novel physical properties, electronic/structural instabilities or phase transitions in magnetic thin films, polarized neutron/X-ray reflectometry.

**Selection Criteria:** *(please indicate separately if different requirements for PhD/Master)*

- Master degree (or equivalent) in Physics or Material Science (essential)

- Strong background in condensed matter physics (preferable)

- Strong interest in thin film deposition and/or structural/magnetic characterization (essential)

- Strong interest in polarized neutron reflectometry or polarized synchrotron spectroscopy (essential)

- Strong interest to work temporarily at large-scale research facilities in China, Europe, United States, Japan and/or Australia (essential)

- Good communication skills, good command of English (essential)

- Ability to work independently as well as in a team environment (essential)

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

- The PhD candidate must fulfill the requirements for admission to the Technion Graduate School and needs to comply with its regulations leading to the PhD/Master degree: <https://graduate.technion.ac.il/en/prospective-students/>

**Fees & Benefits:**

Please click [here](http://www.gtiit.edu.cn/en/graduate-studies.aspx) for the details.

**Application:**

- Application deadline: **15 March 2018**

- Send required documents electronically to: [XXX@gtiit.edu.cn](mailto:XXX@gtiit.edu.cn) *(researcher’s email)*

**How to Apply:**

Please click [here](http://www.gtiit.edu.cn/en/graduate-studies.aspx) for the details.

**Contact:**

XXX *(Researcher’s name)*

Phone: +86 (754) XXXX XXXX *(office number)*

Email: [XXX@gtiit.edu.cn](mailto:XXX@gtiit.edu.cn) *(Researcher’s email)*

Web Page : http…. *(Put GTIIT’s webpage link for this researcher’s profile)*