

# Research, Informatics and Graduate Studies

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## PhD Position in Environmental Engineering (GS-2018011) – Group of Prof. Varenym Achal

The Environmental Engineering Program (group of Prof. Achal) is looking for one PhD student to conduct experimental research project related to bioremediation of e-waste sites. Contract duration: 3 + 1 years.

### Project Details

Environmental pollution by electronic waste poses a threat to the environment and to human health. It contains many toxic metals including copper, nickel, lead, and chromium among others. Considering serious consequences on human health including both kids and adults, it is very important to treat e-waste sites with appropriate remediation process. The overall goal of project is to elucidate bio-mediated solution for such remediation, where research will involve from practice, for practice, and beyond practice. Our laboratory is equipped with state-of-the-art instrumentation facilities to carryout basic to advanced bio-chemical based remediation mechanisms and processes. We work in a collaborative international environment.

### Keywords

Heavy metals, organics, soil characterization, environmental chemistry, environmental microbiology, bioremediation, phytoremediation.

### Selection Criteria

- Master degree in Environmental Engineering or related fields (essential)
- Strong background in soil characterization and remediation for pollutants (essential)
- Vast experiences in using instruments such as ICP-MS, SEM-EDS, XRD, and FTIR (essential)
- Strong interest to work temporarily in overseas labs (essential)
- Good communication skills and 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)
- Published one or more impactful research papers in SCI journal(s) from previous research (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 Ph.D./Master degree: <https://graduate.technion.ac.il/en/prospective-students/>

### Program

Environmental Science and Engineering Research Group

### Research Area

Bioremediation of E-Waste Sites

### Contact

Prof. Varenym Achal

Email: [varenym.achal@gtiit.edu.cn](mailto:varenym.achal@gtiit.edu.cn)

[Web Page Link](#)

### Application Deadline

31 January 2019

### Date Posted

27 September 2018

### Location

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

### Fees & Finance

how to apply