

Research, Informatics and Graduate Studies

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Master (MSc) in Environmental DOM Biogeochemistry Lab (GS-2018009)

The Environmental DOM Biogeochemistry Lab is looking for enthusiastic, self-motivated and competent Master students to conduct experimental research projects in the area of dissolved organic matter (DOM) dynamics in the aquatic environments. The successful candidate will pursue his/her own research within the field and also work in a team of students and researchers. Contract duration: 1-2 year.

Project Details

Our lab is interested in the studies of DOM sources, transformations, and dynamics in diverse aquatic as well as sediment and soil environments, utilizing various cutting-edge advanced techniques such as 3D fluorescence excitation emission matrix coupled with parallel factor analysis (EEM-PARAFAC) and high-resolution Fourier transform ion cyclotron resonance mass spectrometry (FT-ICR-MS). We plan to integrate with chemometrics approach to investigate DOM characteristics and dynamics in the environments.

Keywords

Dissolved organic matter • Biogeochemistry • Aquatic ecosystem • Sediment • River and lake • Wetland • Coastal estuarine • Ocean • Surface water • Groundwater • Porewater • Photochemistry • Bioincubation • Benthic flux • EEM-PARAFAC • FT-ICR-MS • Trophic level • Algal bloom • Water quality • Climate change

Selection Criteria

- Four-years Bachelor's degree (or equivalent) (essential)
- Strong background in environmental science or biogeochemistry research (preferable)
- Experiences in using advanced optical and MS instruments and large-scale data analysis (preferable)
- Familiar with softwares such as MatLab and ArcGIS. Strong computing skills (preferable)
- Strong interest to work temporarily overseas in Israel (essential)
- Good communication skills and fluent oral and written English (essential)
- Ability to work both independently and in a team environment (essential)
- Ability to author scientific reports and co-author scientific publications (essential)
- The candidate must fulfill the requirements for admission to the Technion Graduate School and needs to comply with its regulations leading to the MSc degree:

<https://graduate.technion.ac.il/en/prospective-students/>

Program

Environmental Science and Engineering Research Group

Research Area

Dissolved organic matter (DOM) dynamics in the aquatic environments

Contact

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Application Deadline

Open until filled

Date Posted

August 21 2018

Location

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

[Fees & Finance](#)

how to apply