

# Research, Informatics and Graduate Studies

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## Doctor degree (PhD) in Environmental DOM Biogeochemistry Lab- Group of Dr. Meilian Chen (GS-2019005)

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.

### 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 and its relationship with the ecosystem function, pollutants dynamics, and global carbon budgets.

### 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

- Achieved bachelor's degree and Master 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 research proposal 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 PhD 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

### Contacts

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[Web Page Link](#)

### Application Deadline

Open till filled

### Location

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

### Date Posted

31 May 2019

### Fees & Finance

how to apply

