MIDDLE EAST TECHNICAL UNIVERSITY

PhD in Environmental Engineering - METU, Ankara

Positions for highly motivated PhD students are available immediately to study fluorescence *in situ* hybridization (FISH) with rRNA-targeted probes is, amongst other things, a staining technique that allows phylogenetic identification of bacteria in mixed assemblages without prior cultivation by means of epifluorescence and confocal laser scanning microscopy, or by flow cytometry. FISH is a molecular biology technique that can be used to detect microorganisms known to biodegrade contaminants. When combined with traditional measuring of changes in contaminant concentration over time, FISH provides valuable information for site management, including site conceptual model development, remedy selection, and optimization and determination of contaminant attenuation rates. We enjoy looking at systems from environmental and microbial biotechnology perspective, trying to tease out the key relationships between consortiums. We like using molecular biological methods to investigate the occurrence and distribution of bacteria in the environment in order to provide direct information on community structure for variety of environmental and industrial applications.

Graduate students should have obtained a MSc degree from a recognized University and have training in molecular and cell biology, have the qualifications to become part of Environmental Engineering Department at METU (http://www.enve.metu.edu.tr/index.php?view=academic&sb=2).

Preference will be given to students with published scientific manuscripts.

Please, send a cover letter, CV and names of 2 references to:

Professor Bulent ICGEN
bicgen@metu.edu.tr