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## 3 PhD-MSc positions on catchment sea interaction at METU IMS

We are seeking highly motivated **PhD and MSc students** to join our research project funded by TÜBİTAK 1001 programme focusing on catchment-sea interactions in the East Mediterranean. The researchers will be principally working with Dr. Korhan Özkan ([www.korhanozkan.org](http://www.korhanozkan.org)), Dr. Koray Özhan (<http://ims.metu.edu.tr/people/ozhan-koray-assistant-prof-dr>) and Dr. Ekin Akoğlu (<https://loop.frontiersin.org/people/381933/overview>) as well as collaborating with researchers from Louisiana State University (USA), Hacettepe University and Akdeniz University. The project will be conducted at the Middle East Technical University (METU) Mersin Campus and the students will enrol graduate programmes at the Institute of Marine Sciences (IMS).

2 position are focused on quantification of radioactive isotopes (mainly Ra228) in surface and groundwaters along the East Mediterranean coastline as well as in the Mediterranean Sea waters to understand the role of Submarine Groundwater Discharges in the water and nutrient budget of East Mediterranean. The tasks involved in this **graduate research projects** are:

- Conducting 1 year survey of surface and groundwater sources along the East Mediterranean coastline.
- Conducting 2 basin scale cruise in Cilician Basin (Mediterranean waters between Turkey and Cyprus).
- Sampling during surveys and conducting/coordinating relevant laboratory analyses for Ra228 and water chemistry of the sampled waters at METU IMS, Akdeniz University and Louisiana State University
- Study the spatial and temporal dynamics of the surface and groundwater discharges at pilot sites
- Study the role of surface and groundwater discharges in coastal productivity.

The candidates are required to have basic knowledge on aquatic ecosystems. Experience in fieldwork and laboratory analyses in aquatic sciences as well as GIS and statistical skills are preferable. Background in biology, chemistry, geology, environmental and geological engineering is preferred.

1 position is focused on modelling of SGD in relation to the water budget of Cilician Basin. The tasks involved in this **graduate research project** are:

- Examining available physical oceanography models in Cilician Basin and update if necessary to provide an annual water budget.
- Constructing a box model for SGD in Cilician basin, using the concentrations measured during the project.
- Join relevant fieldwork and cruises.

The candidates are required to have basic knowledge on aquatic ecosystems and skills on statistics and strong command of computer programming languages (preferably R, Matlab or Fortran). Experience in hydrodynamic modelling is preferable. Background in biology, chemistry, geology, environmental and geological engineering, mathematics and statistics is preferred.

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The expected start date is Autumn 2020. We will accept applications until the positions are filled. We offer 2 years stipend (3500 TL per month for PhD and 3000 TL per month for MSc) with possibility of extension. The PhD stipend accommodate a comfortable student life in Turkey (minimum salary in Turkey is 2300 TL). The graduate student dormitory is free at METU Mersin Campus. METU campuses offer comprehensive living and recreation facilities.

**For more information:**

[www.metu.edu.tr](http://www.metu.edu.tr)  
[ims.metu.edu.tr](http://ims.metu.edu.tr)

**Application:**

Please send your CV, transcripts (bachelor and master), exam results (language and GRE), recommendations and a brief letter of motivation to Dr. Korhan Özkan – [okorhan@metu.edu.tr](mailto:okorhan@metu.edu.tr). You can also contact us for informal inquiries.

METU Graduate student applications criteria **require official Graduate Record Exam (A) and language scores (B). A list of accepted examinations is given below. Examinations recommended for international applicants were marked with an asterix (\*).** Native English speakers and applicants having a university degree with English education are exempted from English tests. For more inquiries please check the link below:

<https://msphd.metu.edu.tr/en/graduate-application>

Examination type	Examination	METU IMS
A	ALES (Turkish Graduate Record Exam)	70
A*	GRE (Quantitative)	155
B*	TOEFL	79
B*	IELTS	6.5
B	METU EPE (METU English Proficiency Exam)	65