Postdoctoral and PhD positions available in the School of Mechanical Engineering under the work-frame of the Center of Mediterranean Studies, Tel-Aviv University

PD and PhD positions are available for application in a newly formed research group on ocean waves. Main research areas of the group are: interactions of sea waves with winds and currents, nonlinear surface wave mechanics, and HF radar measurements.

A special emphasis of the group is on connecting between the field of surface gravity waves to other aspects of geophysical fluid dynamics and on transferring solution methods between the two.

Several research projects related to the above themes are available. The projects related to the first two themes have a theoretical nature and some numerical modeling requirements. The HF radar project aims to set up a radar system on the Israeli Mediterranean shore (with the help of the group’s engineer) and to analyze the acquired data for investigating the flow, eddies, and surface waves in the region.

Applicants should have, or be close to obtaining, a doctorate or a master level degree in engineering, geophysics, physics, or applied mathematics. One or more of the following aptitudes are desirable:

- Strong background in GFD or fluid mechanics
- Strong background in wave motion, in general, or surface gravity waves, in particular
- Strong background in applied mathematics
- Experience in numerical modeling, specifically in the field of geophysical fluid flows
- Background in wave/current measurements using HF radars
- Good coding skills in Mathematica, Matlab and/or Fortran
- A high level of English (essential)

The post-doctoral appointment is for two years and the PhD one is for four, commencing in an agreed date during the coming academical year. The position provides stipend of a competitive value. A further increase of the stipend's value is possible upon a successful competition on internal and external funds. In addition, there is a possibility for receiving a subsidized private/shared university housing. The positions will be open until filled. In order to apply, please send the following material to the email address given below.

- A CV including a publication list (submitted publications can also be listed)
- Transcripts of acquired degrees (or expected finish date) and a graded course list
- A brief (half a page) statement of: research interests, the required topic within the group’s activities, the applicant's relevant experience or capabilities and the date of availability
- A list of three of referees and their contact information (for PDs one of the referees should be the PhD supervisor, and another one should preferably be from a different institute)

The successful applicants will work with Dr. Yaron Toledo on a research project selected according to the applicant’s skills and interests within the above themes. The research project will be discussed and agreed upon during a face-to-face or a skype interview.

For further details, please feel free to contact Dr. Yaron Toledo at
Email: toledo@tau.ac.il
Website: http://www.eng.tau.ac.il/~toledo/