



The Water Center of Excellence – Alexandria University announces a workshop discussing "Water Equipment Testing and Quality"

The Water Center of Excellence announces the opening of the "Water Equipment Testing and Quality" workshop.

The workshop will be held at Temple University from November 29 through December 10. Opportunities are available for more participants.



Water Quality and Equipment Testing Workshop *Continued Call*

The Center of Excellence for Water is a 5-year USAID funded project to establish a Center of Excellence for Water at Alexandria University – Egypt. The project is managed by The American University in Cairo (AUC) and has multiple partnerships and stakeholders (Universities, Public Institutions, and Industries). The Center's overall goal is to promote water related research and educational activities for the benefit of Egypt's economy and people, and support the government to face water challenges, develop policy, and prepare the next generation of graduates and entrepreneurs. The Center focuses on curriculum reform, capacity development, commercialization of research, technology transfer, design and dissemination of the most relevant and highest quality applied research to face the challenges of different sectors and enable the country to achieve Egypt-Vision 2030 goals. Under this vision, a series of Workshops are developed and conducted. These Workshops cover topics such as Advanced LMS, Governance, Research Policy, Water Quality, Water and Wastewater Treatment, Technology Commercialization and Entrepreneurship.

During the Center of Excellence for Water project period, there are five (5) workshops planned on Water Quality and related testing equipment to be offered at Temple University, USA. Below is a description of the first workshop on water quality testing. The first workshop will focus on commonly used water quality testing performed at drinking water, municipal wastewater and many industrial wastewater treatment plants. Participants will be introduced to state of the art methods, and theoretical and laboratory based learning experience, including field trips to treatment plants.

This call is a continuation of the previously launched one in March/April 2020, new candidates are encouraged to apply; selected participants of this call will join the previously contacted candidates from the first call.

Title of Workshop

Water Quality and Equipment Testing

Dates of workshop

November 28th – December, 11th 2021 (2 weeks including travel days)

Host / Organizing University

Temple University

Number of Attendees: 25 (faculty and postgraduate students)

Profile of Attendees (Faculty)

1. Basic knowledge of water quality parameters
2. Faculty currently teaching Water related courses
3. Professors working on water related research



Center of Excellence for Water
The American University in Cairo
AUC Avenue, P.O. Box 74 - New Cairo, 11821 - Egypt



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4. Proficient in English language
5. Accepting to transfer the knowledge to other colleagues
6. Being faculty at one of the project's partner universities: Ain Shams, Alexandria, Aswan, Beni Suef and Zagazig.

Profile of Attendees (Postgraduate students)

1. Postgraduate students taking courses in Water Quality
2. Postgraduate students currently working on Water related research
3. Proficiency in English language
4. Accepting to train others and provide full support to faculty after being trained
5. Enrolled at one of the project's partner universities: Ain Shams, Alexandria, Aswan, Beni Suef and Zagazig.

Brief Description of the Workshop

List of topics for draft agenda:

- a) Lab safety training and Laboratory Compliance
- b) Introduction to water quality parameters
- c) State of the art equipment used in water quality analysis
- d) Quality control and Quality Assurance (QA/QC)
- e) Precision and Accuracy
- f) pH, Acidity, Alkalinity & Hardness, Dissolved Oxygen, Turbidity, TSS, DSS, VSS
- g) Total Organic Carbon, Chemical Oxidation Demand (COD), and 5-day Biological Oxidation Demand (BOD)
- h) Inorganic chemicals (Fluoride, Chloride, Nitrates, etc.)
- i) Disinfection By-Products
- j) Microbial Enumeration
- k) Use of TOC Analyzer, Ion Chromatograph (IC), UV/vis Spectrophotometer

Other Topics

- a. Seminars from industry experts
- b. Field Trip to Drinking Water Treatment Plant
- c. Field Trip to Municipal Wastewater Treatment Plant

Intended Learning Outcomes (ILOs)

Attendees will be prepared to perform the following:

1. For Students, be able to:
 - a. Demonstrate important laboratory skills such as sample preparation, calibration of test equipment, and quality control
 - b. Perform experiments in accordance to Standard Methods for Water Quality
 - c. Analyze data using statistical, mathematical, and/or computational methods and interpret results
2. For Faculty, be able to:
 - a. Develop graduate and undergraduate courses related to Water Quality
 - b. Develop research related to water quality that would help Egypt/Egyptian Industries
 - c. Transform the concepts learned in class to real world application pertaining to Water Quality

Application Process

To strengthen the Water Engineering programs in Egyptian Universities, preference will be given to Faculty in Engineering Faculties, but Faculty teaching Water related courses in other Faculties will also be considered.

- Please fill the online application by visiting: <https://bit.ly/3CUFxnV> (**Workshops Calls for Water Engineering**)
- Deadline for Application: **September 1st, 2021 at 11:55PM** Cairo Time
- An Interview will be organized with shortlisted candidates

