# JUMP! Into Your Future Career In Water

#### Brought to you by Water Engineering & Environment Program (WEE)

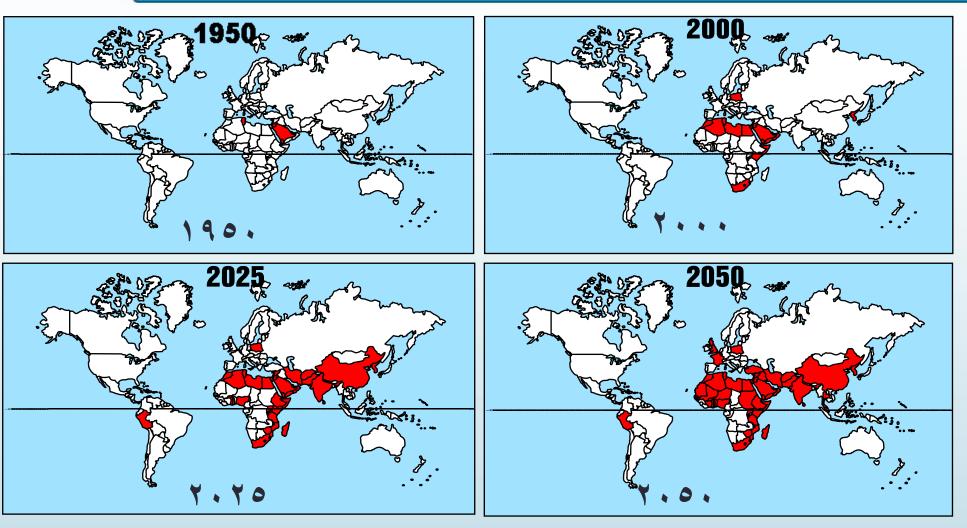


## **Frequently Asked Questions**

- 1. Why to study WEE ?
- 2. What are the main fields of study?
- 3. Do I need practical training to get a good job after graduation?
- 4. Does WEE offer scholarships & How do I apply?
- 5. What kind of jobs will I be offered after graduation?
- 6. How much money can I expect to make as an engineer?
- 7. Can I study and work abroad?
- 8. In today's and future job market, is WEE a good stream to take up?



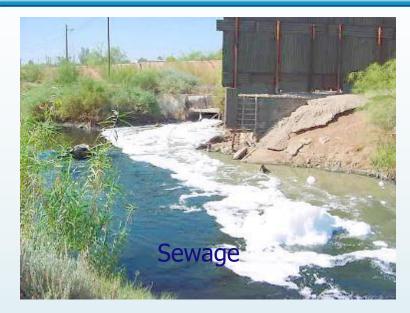
Why to study WEE ?

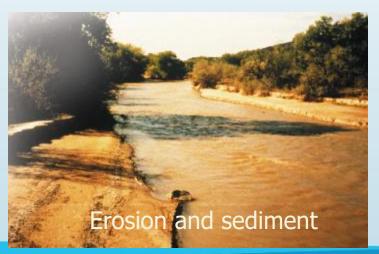


Countries suffer from water shortage



## Not only Water Scarcity but also Pollutions





Water quality can be degraded by community and industrial waste di





solid waste disposal

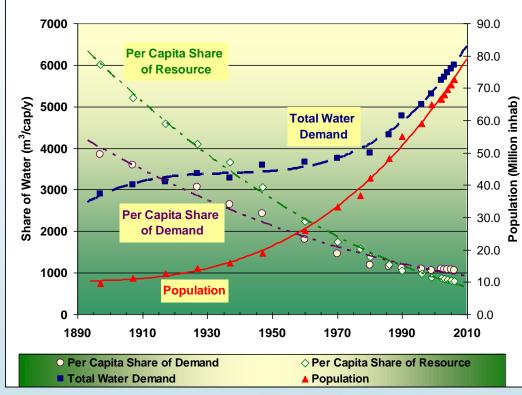


## Why to study WEE ?

# • To participate in solving worldwide & Egypt's top-priority challenges (Water Scarcity and Environmental Problems)



- ✓ Only 55.5 BCM/yr NOT ENOUGH for the current population (<600 m3/capita/yr)</p>
- ✓ Egypt reuses over 25% of the water to meet current demand
- ✓ Upstream projects may reduce this limited resource adding to WATER STRESS





## Why to study WEE ?

- To participate in solving Egypt's top-priority challenges (Water Shortages and Environmental Problems)
  - Water Sacristy (GW development + Desalination + Irrigation improvement)
     Only 45% Connected to sewer network in Egypt, 16 B LE/year till 2030
     Inland navigation to be increased from 2% to 10% 400 M LE/year for 5 years
     Pollution reduction in canals, drains, and groundwater (major water resources now)
     East Suez Canal projects



Water Engineering and Environment

## Why to study WEE ?

- Scholarships (HCWW, MWRI, industry.....)
- Max. of 30 students (One-One student/faculty relation)
- High market demand (100% employment)
- Local and international training opportunities
- Practical training (software and field investigations)

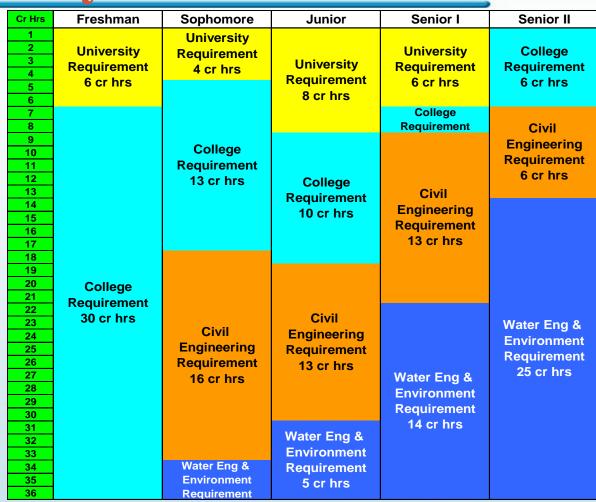




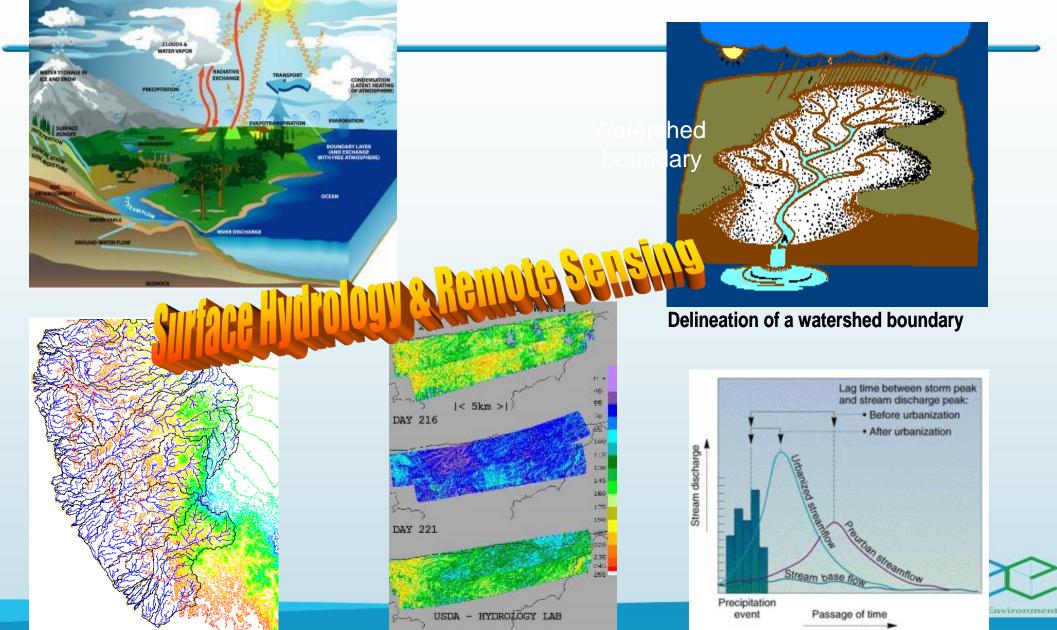
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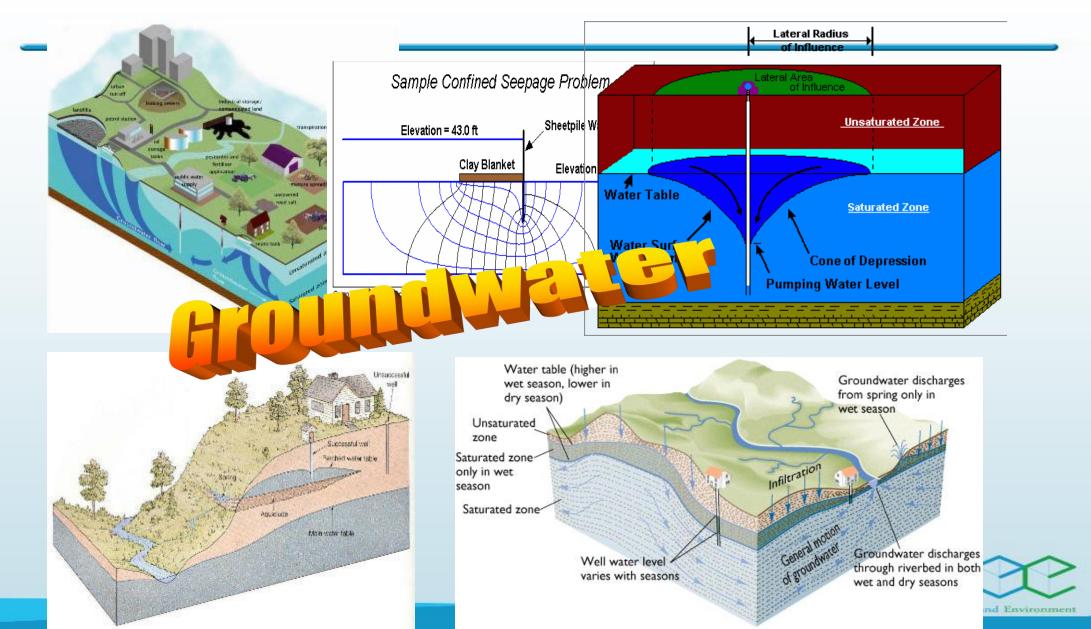
## What are the main fields of study?

- You are a Civil Engineer
- You will be studding about 70% shared courses with civil
- You will be focusing on water
  & Environment
- Your focusing subjects include

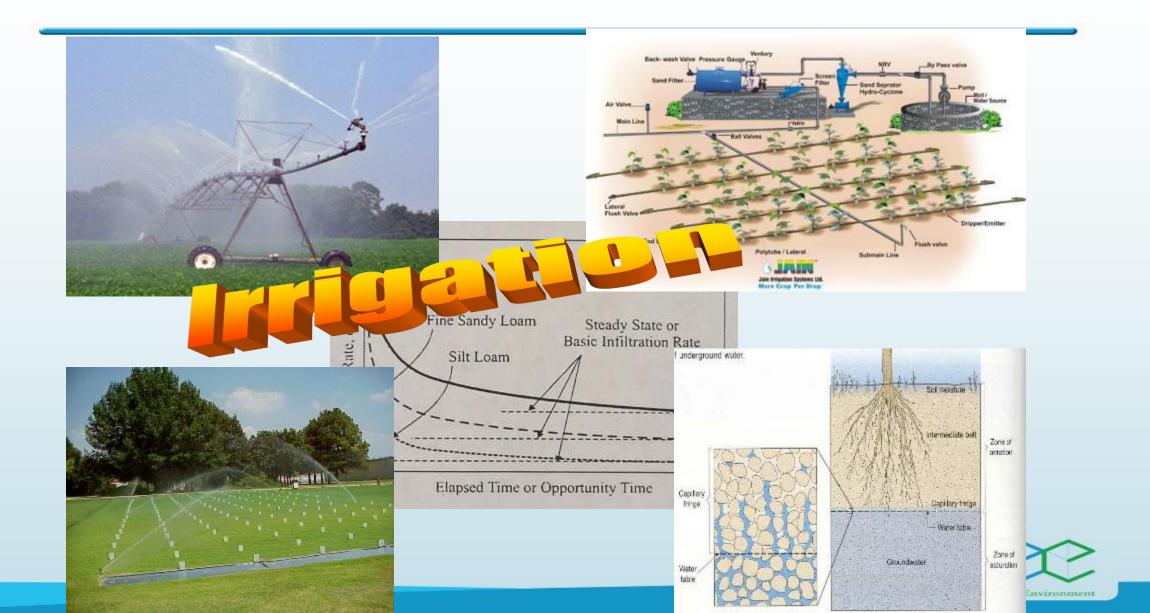


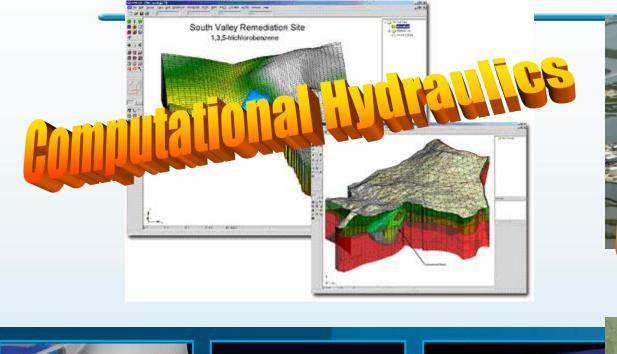


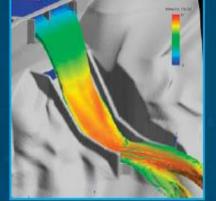


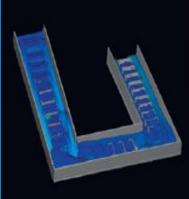


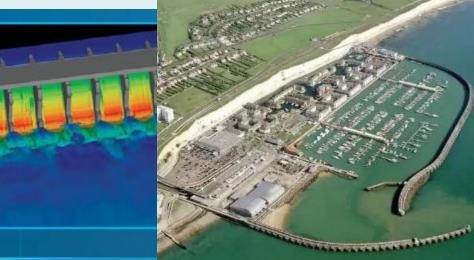










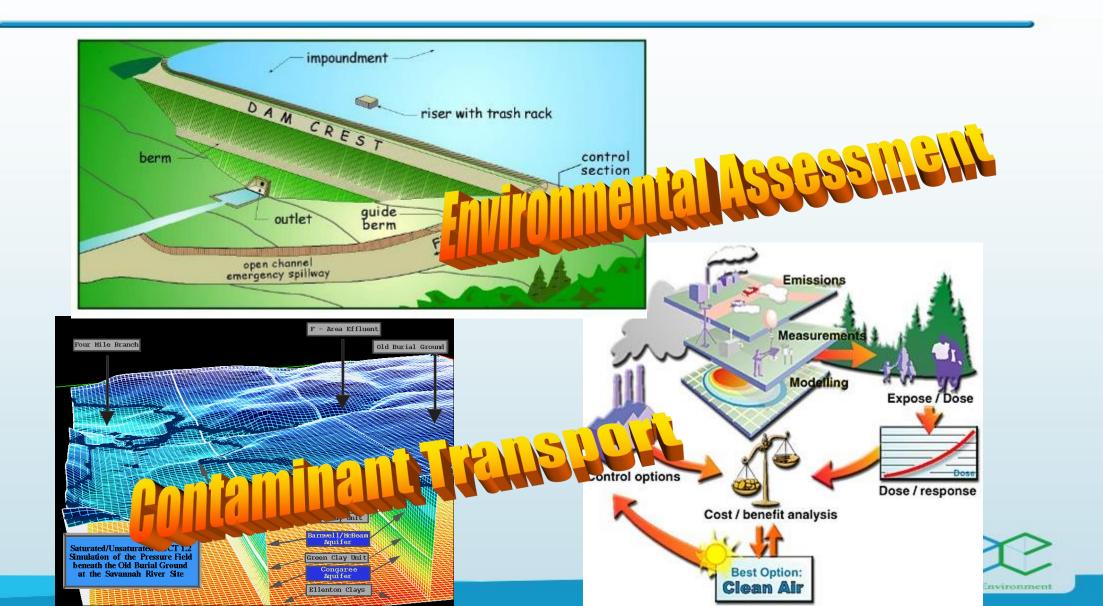




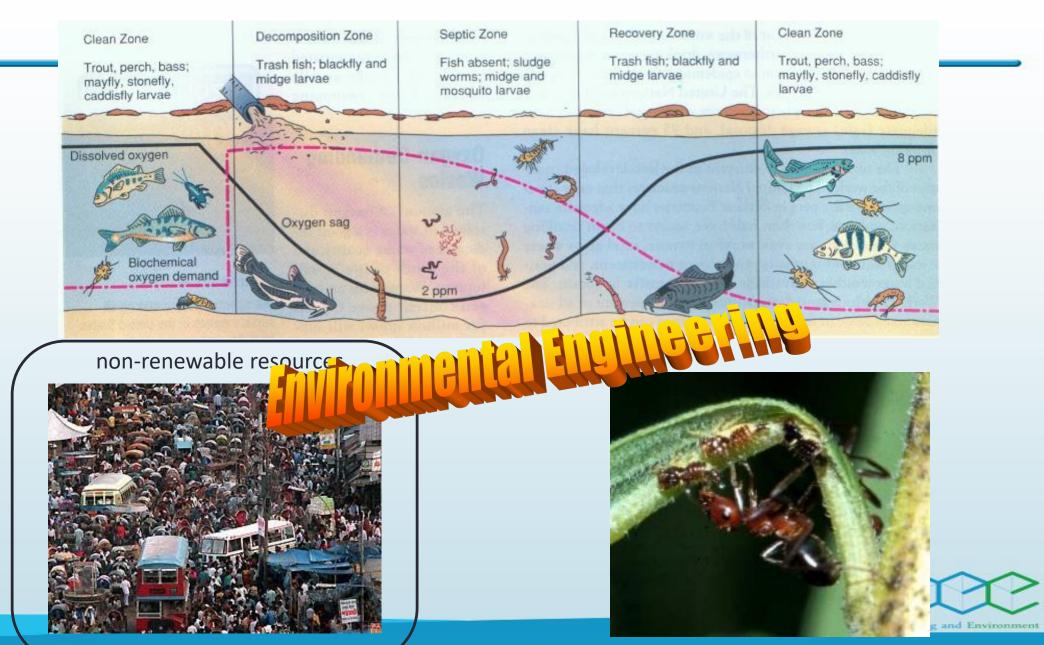
**Coastal Protection & Shoreline Defense** 

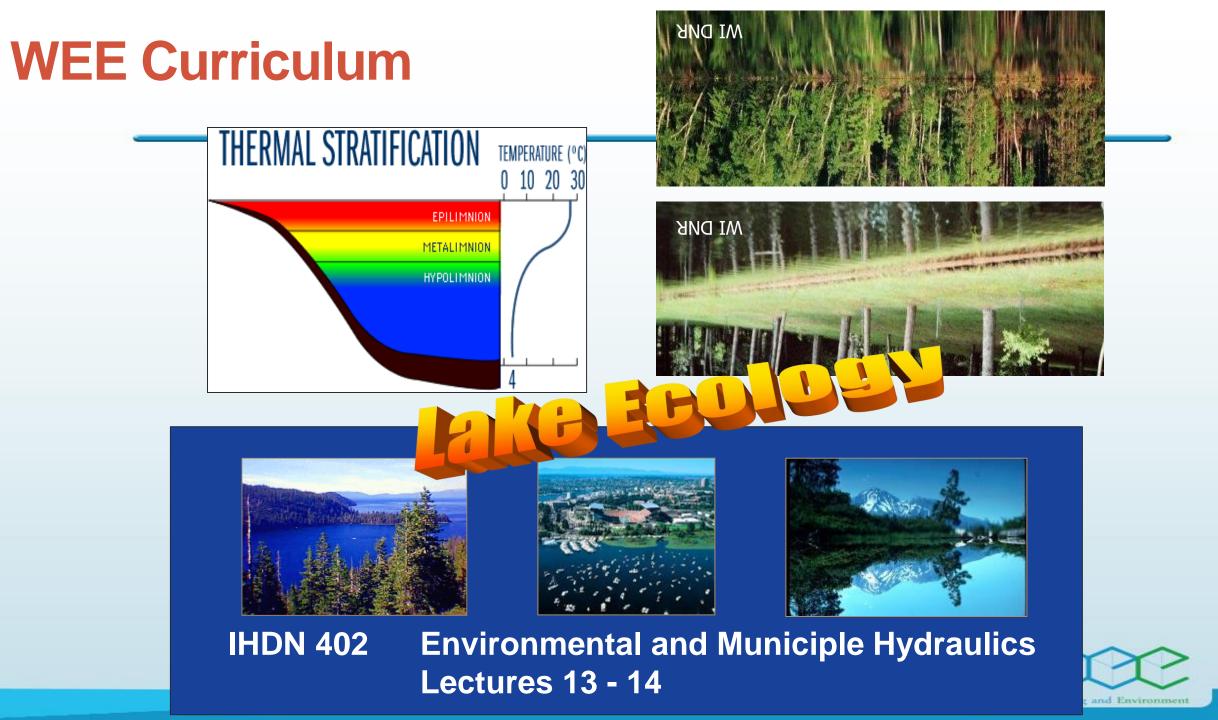
Caminada Headland, Louisiana

Engineering and Environment









#### **Do I need practical training to get a good job after graduation?**





## **Site Visit Module**

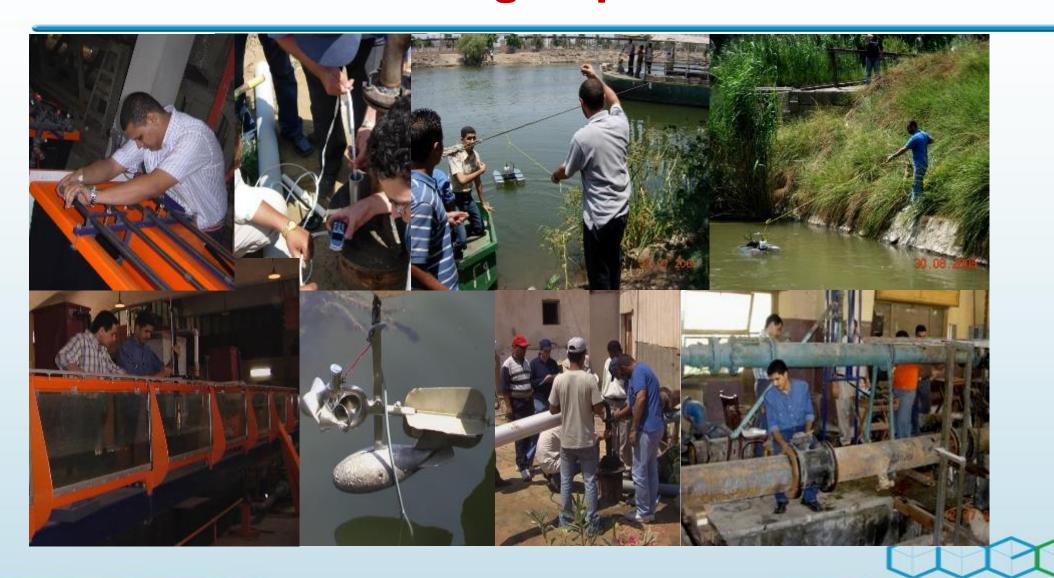


 Site visits provide an excellent shop window for many career opportunities.

 The association of the program with MWRI and HCWW allow a great chance for WEE students to acquire appropriate technical proficiency in the water and environmental engineering



# Understanding the environment begins with measuring its parameters



## **Groundwater Hydrology**









## **Surface Flow Hydrology**





## **River & Stream Flow**





## **National Training**









#### Water treatment process

#### •WW treatment process







#### **MWRI**

- Egyptian Public Authority for Drainage Projects (EPADP)
- Designing an irrigation drainage network
- Field and farm measurements
- Visit to drainage network construction site.



# **INTERNATIONAL TRAINING**













Water Engineering and Environment

# hansgrohe



In cooperation with Duravit Egypt we support the student's summer training of the faculty of engineering - Cairo University. Yesterday we had the honor of welcoming 20 students at our headquarters – everybody had a great time during this exciting intercultural exchange.









# GEBERIT



#### GRUNDFOS 🕅



#### GRUNDFOS 🕅

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تستغیف حالیا جروندفوس عمر ما بقارب المشربی طالب فی الدانمارك و لمدة أسبوع علی ان تتعمی الزبارة النظیقات و زبارات الدمانو كذلك متحف الشركة و الأكاديمية التطيمية





## CONFERENCES



# The1<sup>st</sup> Conference For Sustainable Water Supply & Sanitation











# World Water Forum, France, 2011

'EAU



TIME FOR SOLUTIONS



#### **Does WEE offer scholarships & How do I apply?**

 Some scholarships are secured through the Holding company for water & Waste water

 You don't have to apply for scholarships—these are assigned based on student GPA



• As a *Civil Engineer* you can work in any civil engineering discipline with some training



**Geotechnical Engineering** 



**Construction Supervision** 



**Structural Design** 







#### WWTP / WT

• As a *Water & Environmental Eng.* you can work in flood protection, stormwater management, water resources management, water distribution networks design, wastewater collection network design and supervision, water and wastewater treatment plants, solid waste management, environmental protection, irrigation design works



**Stormwater Management** 

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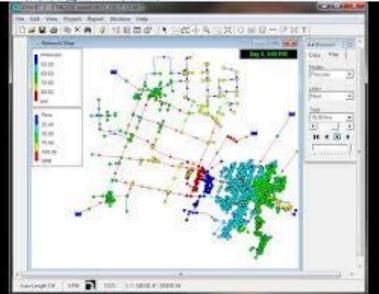


**Environmental Prote** 



#### **Integrated Water Resources Management**

• As a *Water & Environmental Eng.* you can work in flood protection, stormwater management, water resources management, water distribution networks design, wastewater collection network design and supervision, water and wastewater treatment plants, solid waste management, environmental protection, irrigation design works



Water/Wastewater networks design



WTPs/ WWTPs



**Solid Waste Management** 

• As a *Water & Environmental Eng.* you can work in flood protection, stormwater management, water resources management, water distribution networks design, wastewater collection network design and supervision, we and wastewater treatment plants, solid waste management, environmental protection, irrigation design works



**Marina/ Harbour Planning** 



#### **Modern Irrigation systems**



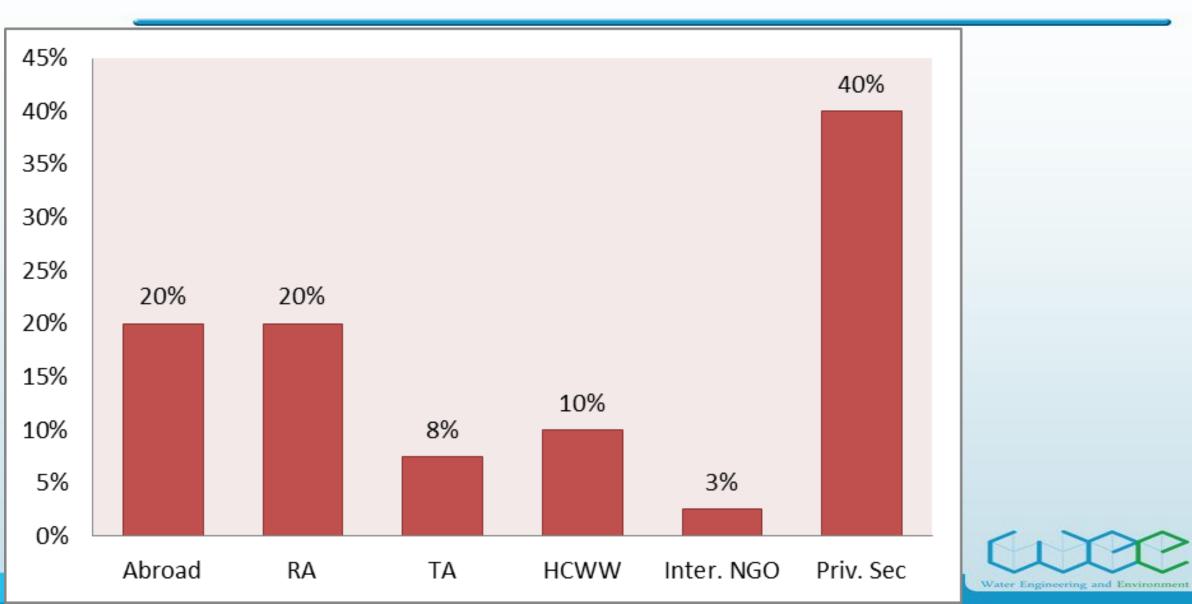


#### How much money can I expect to make as an engineer?

- There will always be a need for skilled engineers in industry, academia, government and non-profit organizations.
- What you make in salary depends a great deal on the job, the location and how much education and experience you bring to the negotiating table



#### **Our Alumni**



## The overflowing benefits

# Careers in water are **SECURE!**

Careers in water have room for GROWTH!

Careers in water have COMPETITIVE salaries, benefits and more!



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