This presentation premiered at WaterSmart Innovations

watersmartinnovations.com
About Us

- Safe, reliable water since 1977
- 32 square mile service area
- 190,000 customers
- 2 dams, 2 reservoirs, 20 storage tanks, and 17 pump stations
- Surface water treatment, groundwater desalination, freshwater wells and imported water
Sweetwater Authority Education Programs

• Previous programs

• Changes in education standards

• Community partners
Innovation Station

Information & Communication Technologies

A PRIORITY SECTOR IN SAN DIEGO COUNTY

Intermediary and Communication Technologies (ICT) is a sector focused on the collection and transmission of information over a variety of platforms, using multiple coding languages. Fast Programmers and Developers are in particularly high demand.

Jobs & Median Wages by Educational Attainment

- Bachelor’s Degree: $43.21
- Associate Degree: $28.89
- High School Diploma: $17.77
- Other: $5.31

Top 5 In-Demand Jobs + Median Wages
1. Application Developers: $46.81
2. Sales Representatives: $35.20
3. System Software Developers: $52.58
4. Computer System Analysts: $40.29
5. Administrative Assistants: $17.94

Knowledge, Skills, & Abilities (KSA)
- K: Computers, electronics, engineering, technology
- S: Analysis, critical thinking, systems evaluation, numbering
- A: Reading, ways of thinking and problem-solving

Energy Station

Clean Energy

A PRIORITY SECTOR IN SAN DIEGO COUNTY

The Clean Energy sector represents a broad set of activities from delivering clean energy to accounting greenhouse gas emissions. Over 20% of Clean Energy companies in San Diego specialize in solar power as their primary renewable technology.

Jobs & Median Wages by Educational Attainment

- Bachelor’s Degree: $40.04
- Associate Degree: $25.88
- High School Diploma: $24.16
- Other: $21.74

Top 5 In-Demand Jobs + Median Wages
1. Sales Representatives: $24.40
2. Energy Auditors: $34.00
3. Electrotronic Engineers: $26.01
4. Plumbers: $24.80
5. Heating & Air Conditioning Technicians: $22.12

Knowledge, Skills, & Abilities (KSA)
- K: Sales, marketing, design, customer service
- S: Persuasion, critical thinking, teamwork, product development
- A: Electronics installation, electrical engineering

Hydro Station

Blue Economy

This sector employs everyone who works on water-related issues, from divers to engineers. It impacts manufacturing, military, tourism and more industries. Fast San Diego’s Blue Economy includes more than 3,400 local companies.

Jobs & Median Wages by Educational Attainment

- Bachelor’s Degree: $46.56
- Associate Degree: $39.12
- High School Diploma: $18.12
- Other: $12.18

Top 5 In-Demand Jobs + Median Wages
1. Maintenance & Repair Workers: $18.18
2. Water.Safety Technicians: $24.31
3. Electricians: $26.85
4. Plumbers & Pipelayers: $17.82
5. Marine Engineers: $42.11

Knowledge, Skills, & Abilities (KSA)
- K: Management, construction, maintenance, repair, management, development
- S: Active learning, advice thinking, management, systems analysis
- A: Information ordering, reasoning, written communication, inferencing
Hydro Station Experience

• 5 hour, one-day experience
• World of Work
• Hands-on learning opportunities
World of Work: Industry Connections

San Diego’s water industry provides career opportunities across all levels of educational attainment. More than 2,800 people work in the water and wastewater sector at the Water Authority and its 24 member agencies.

Educational Pipeline for San Diego’s Water Industry

San Diego’s colleges & universities offer 58 water-related academic programs, including:

- **WATER & WASTEWATER TECHNOLOGY PROGRAM**
  Cuyamaca College & Palomar College
  This two-year academic program provides pre-employment training as well as advanced courses in water and wastewater technology for students seeking certification for careers as water or wastewater operators.

- **WATER MANAGEMENT & LEADERSHIP PROGRAM**
  CSU San Marcos
  This intermediate-level certificate program is open to the general public but is geared toward water agency employees who wish to advance their supervisory skills and knowledge.

- **REGIONAL WATER & WASTEWATER INTERNSHIP PROGRAM**
  San Diego County Water Authority & member agencies
  Since 2004, the Water Authority—in partnership with its member agencies—has provided over 150 paid internships that teach technical skills required to operate and maintain water and wastewater systems, with around 80 percent earning full-time positions.
World of Work: Strengths

**Academic**
You are intelligent, have good memory, are organized and get things done.

**Analytical**
You work through problems by breaking them down into many steps. You are rational and detail oriented.

**Appreciation**
You are thankful for what you have. You see the good in others and are humble.

**Assertiveness**
You are confident! You stand up for what's right and speak your mind.

**Athleticism**
You have speed, endurance, and strength. You can master almost any sport!

**Compassion**
You are tolerant, caring, kind and sensitive. You are a great friend and understand feelings.

**Coordination**
You have rhythm, flexibility and a good sense of your body. You instinctively move with grace!

**Creative Skill**
You create with ease! From dance to drama, painting to poetry, you make the extraordinary easy.

**Creative Thinking**
Hello innovator! You brainstorm unique ideas and find novel solutions to challenges and puzzles.

**Drive**
You are self directed, excited by your interests, and are highly motivated to do well.

**Focus**
You finish tasks. You set goals and nothing gets in your way!

**Fun-loving**
You are the life of the party! You bring others into fun situations. You are positive and lively.

**Independence**
You do not need to be the center of attention. You can do things on your own and are very resourceful.

**Leadership**
You are visionary and inspire others! You can present in front of others and capture their attention.

**Memory**
Facts, figures and images stick in your brain! You easily recall information, focus, and compute in your head.
World of Work: Interests
Students select career badges that align with their strengths, interests, and values.
Expanding the Experience