

## ***CIVIL ENGINEERING: A Career with a Future***

Civil Engineering has been **facing the challenge** of the future for many centuries. The civil engineer was always expected to produce the impossible; something better than what was already available. The civil engineer builds to advance **civilization** and make possible the higher **standards of living** that lie ahead.

As the **technological revolution** expands, as the world's population continues to grow, as environmental concerns multiply, the **skills** of civil engineers will be in greater demand than ever. The next few decades will be among the most creative, demanding and rewarding of all times for civil engineers.

As a civil engineer you plan, design and **supervise** the construction of **facilities** essential to modern life in both the **public and private sector** – facilities that vary widely in nature, size and **scope**: bridges, buildings, tunnels, highways, **transit systems**, dams, airports, irrigation projects, **treatment and distribution facilities for water** and **collection and treatment facilities for wastewater**.

You will be **in the forefront** of high technology's newest applications. Civil engineers apply today's **sophisticated high technology**. They employ the latest concepts in computer-aided design (CAD) during design, construction, **scheduling** and **cost control**.

You will be involved in community **development** and improvement. Civil engineers are problem solvers, meeting the challenges of **pollution**, the deteriorating **infrastructure**, **traffic congestion**, energy needs, **floods**, **earthquakes**, **urban redevelopment** and **community planning**. You will be responsible for improving the quality of life in these areas and more. Service to the community, its development and improvement is basically what civil engineering is all about.

One of the great rewards of civil engineering is the **personal satisfaction** derived from the creation of **enduring construction** to make our communities better places in which to live and work. Whatever your areas of involvement – design, construction, research - civil engineering offers you a wide range of career choices for your future.

## **Words / phrases to remember**

- ✓ **face the challenge** = αντιμετωπίζω την πρόκληση
- ✓ **civilization** = πολιτισμός
- ✓ **standards of living** = βιοτικό επίπεδο/ επίπεδα διαβίωσης
- ✓ **technological revolution** = τεχνολογική επανάσταση
- ✓ **skills** = δεξιότητες
- ✓ **supervise** = επιβλέπω
- ✓ **facilities** = εγκαταστάσεις
- ✓ **public sector** = δημόσιος τομέας
- ✓ **private sector** = ιδιωτικός τομέας
- ✓ **in scope** = πεδίο εφαρμογής / εύρος
- ✓ **transit systems** = σύστημα μεταφορών
- ✓ **water treatment and distribution facilities** = εγκαταστάσεις επεξεργασίας και διανομή υδάτων
- ✓ **wastewater collection and treatment facilities** = εγκαταστάσεις συλλογής και επεξεργασίας λυμάτων
- ✓ **in the forefront of** = στο προσκήνιο, στην πρώτη γραμμή
- ✓ **sophisticated technology** = εξεζητημένη/ προηγμένη τεχνολογία
- ✓ **scheduling** = προγραμματισμός (εργασιών)
- ✓ **cost control** = έλεγχος κόστους/δαπανών
- ✓ **development** = ανάπτυξη
- ✓ **pollution** = μόλυνση
- ✓ **infrastructure** = υποδομές
- ✓ **traffic congestion** = κυκλοφοριακή συμφόρηση
- ✓ **flood** = πλημμύρα
- ✓ **earthquake** = σεισμός
- ✓ **urban redevelopment** = αστική ανάπλαση
- ✓ **community planning** = σχεδιασμός κοινοτικών έργων
- ✓ **personal satisfaction** = προσωπική ικανοποίηση
- ✓ **enduring construction** = ανθεκτική κατασκευή