



Technical Engineer (217)

The Army builds and repairs many airstrips, docks, barracks, roads, and other projects each year and the Technical Engineer is essential to this process. Technical Engineers conduct land surveys, make maps and prepare detailed plans and drawings for construction projects. They also occasionally provide surveys and maps that are used to locate military targets and plot troop movements.

The Technical Engineer supervises or participates in construction site development to include technical investigation, surveying, drafting, development of construction plans and specifications. Some of your duties as a Technical Engineer may include:

- Assisting in the performance of field and laboratory tests on construction materials, construction surveys and drafting for Army construction

- Drawing maps and charts using drafting tools such as easels, templates, and compasses

- Making scale drawings of roads, airfields, buildings, and other military projects

- Conducting land surveys and computing survey results

- Drawing diagrams for wiring and plumbing of structures

- Building scale models of land areas that show hills, lakes, roads, and buildings

- Piecing together aerial photographs to form large photomaps

TRAINING

Job training for a Technical Engineer consists of nine weeks of Basic Training, where you'll learn basic Soldiering skills, and approximately 18 weeks of Advanced Individual Training, depending on specialty. Part of this time is spent in the classroom and part in the field. You'll learn:

- Surveying and drafting techniques

- Aerial photo interpretation

- Architectural and structural drawing

HELPFUL SKILLS

Helpful attributes include:

- An ability to convert ideas into drawings

- An interest in maps and charts

- An ability to print and draw neatly

- An interest in working with drafting equipment

ADVANCED RESPONSIBILITIES

Advanced level Technical Engineers supervise and train other Soldiers in their discipline. As an advanced level Technical Engineer, you may be involved in:

- Performing field and laboratory testing on construction materials, construction surveys and design drafting for military construction

RELATED CIVILIAN JOBS

The skills you'll learn as a Technical Engineer will help prepare you for a future with civilian construction, engineering, and architectural firms and government agencies such as the highway department. You'd most likely be involved with planning construction projects such as highways, airport runways, dams, and drainage systems. Cartographer, cartographic technician and photogrammetrist are also potential civilian positions for you to consider.

RELATED ARMY POSITIONS

- Interior Electrician (21R)

Information about this MOS provided by: www.goarmy.com

For further information visit: www.minnesotanationalguard.org