

ArrowHead Recruitments & Consulting

<https://arrowheadconsulting.ca/job/civil-engineer-noc-21300/>

Civil Engineer

Description

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Civil engineers plan, design, develop and manage projects for the construction or repair of buildings, earth structures, powerhouses, roads, airports, railways, rapid transit facilities, bridges, tunnels, canals, dams, ports and coastal installations and systems related to highway and transportation services, water distribution and sanitation. They may also specialize in foundation analysis, building and structural inspection, surveying, geomatics and municipal planning. They are employed by engineering consulting companies, in all levels of government, by construction firms and in many other industries, or they may be self-employed.

Responsibilities

Job duties

Here are some of the main activities and tasks that Civil engineers have to perform, and some of the physical demands they involve:

- Confer with clients and other members of the engineering team and conduct research to determine project requirements
- Plan and design major civil projects such as buildings, roads, bridges, dams, water and waste management systems and structural steel fabrications
- Develop construction specifications and procedures
- Evaluate and recommend appropriate building and construction materials
- Interpret, review and approve survey and civil design work
- Conduct field services for civil works
- Ensure construction plans meet guidelines and specifications of building codes and other regulations
- Establish and monitor construction work schedules
- Conduct feasibility studies, economic analyses, municipal and regional traffic studies, environmental impact studies or other investigations
- Monitor air, water and soil quality and develop procedures to clean up contaminated sites
- Conduct technical analyses of survey and field data for development of topographic, soil, hydrological or other information and prepare reports
- Act as project or site supervisor for land survey or construction work
- Prepare contract documents and review and evaluate tenders for construction projects
- Supervise technicians, technologists and other engineers and review and approve designs, calculations and cost estimates.

Workplaces and employers

Here are the typical workplaces where Civil engineers are employed and some of their main characteristics:

Hiring organization

ArrowHead Recruitments & Consulting

Employment Type

Full-time

Beginning of employment

ASAP

Duration of employment

Permanent

Industry

engineering

Job Location

Edmonton, Alberta, Canada

Working Hours

9 AM TO 5 PM

Base Salary

\$ 31.25/hr - \$ 36.65/hr

Date posted

May 1, 2025

Valid through

31.05.2025

- Self-employed
- All levels of government
- Construction firms
- Industries
- Consulting engineering firms

Qualifications

Employment requirements

This is what you typically need for the job.

- A bachelor's degree in civil engineering or in a related engineering discipline is required.
- A master's degree or doctorate in a related engineering discipline may be required.
- Licensing by a provincial or territorial association of professional engineers is required to approve engineering drawings and reports and to practise as a Professional Engineer (P.Eng.).
- Engineers are eligible for registration following graduation from an accredited educational program, and after three or four years of supervised work experience in engineering and passing a professional practice examination.
- Leadership in Energy and Environmental Design (LEED) certification is offered by the Canada Green Building Council and may be required by some employers.