

Civil Engineer



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Job Description

- § investigate sites to work out the most suitable foundation for a proposed construction
- § research and advise on the best engineering solution to meet with a client's needs and budget
- § produce detailed designs and documentation for the construction and implementation of civil engineering projects
- § organise the delivery of materials, plant and equipment needed for the construction project and supervise labour
- § develop detailed programs for the coordination of site activities
- § talk to other engineers, architects, landscape architects and environmental scientists
- § assist government bodies in preparing yearly works programs within set budgets (e.g. for works on car parks, drainage, roads, aerodromes or sewerage)
- § prepare engineering calculations required for the design of projects and supervise the drafting
- § operate computers to assist with the design of civil engineering projects
- § coordinate and direct research development and testing of materials, processes or systems related to civil engineering works
- § research, advise on and plan the control and minimisation of air, water and solid waste pollution, and the management of water
- § supervise the testing and commissioning of completed works
- § analyse and interpret reports on loading, labour, productivity, quality, materials and performance
- § analyse risks associated with natural disasters including wind, earthquake, fire and floods, and design structures and services to meet appropriate standards
- § arrange for geological and geophysical investigations and carry out feasibility studies.

Eligibility

- § bachelor degree or higher qualification.

AND

- § Minimum 3 years of work experience.