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Employment Opportunity

Civil CADD Technologist

Parks & Environmental Services – Facilities Management & Engineering Services

Competition	18/202
Status	Regular Fulltime
Hours of Work	70 hours bi-weekly
Rate of Pay	\$35.14 – \$39.86 per hour (2016 rates)
Review of applications begins	4:00pm on September 14, 2018

Summary

The Civil CADD Technologist will perform civil/ mechanical/ structural engineering design drafting duties of a complex nature utilizing various computer drafting software (CADD). The Civil CADD Technologist works directly with the Design Engineer and/or the Senior Engineering Technician and requires accuracy, thoroughness, and the ability to deal with change.

Duties & Responsibilities

- Completes design drafting for a wide variety of engineering projects related to capital works, maintenance, water, wastewater and solid waste, including: horizontal/vertical pipe alignment; pipe layout, structures, valve chambers, reservoirs; estimates for volume, materials and costs; site layout and grading; as well as road alignments, etc.
- Liaises with the Design Engineer and/or the Senior Engineering Technician for initial design parameters for checking and/or approval of design including alignment, geometry and details and to develop design and drawings to tender or quotation stage.
- Calculates structural framing sizes using buildings codes, standard reference tables and manuals.
- Completes drafting assignments for mapping, report drawings, graphs, charts, overheads, display graphics, etc., from rough sketches and instructions.
- Checks accuracy of design information when provided (i.e. pipe lengths, grades, inverts, etc.).
- Carries out preliminary site investigations.
- Plots from survey notes with a clear understanding of surveying theory.
- Plots from legal plans or metes and bounds descriptions.
- Collects field data using GPS or total station Systems as required.
- Liaises and works cooperatively with contractors, consultants, government agencies, utility companies, suppliers, print shops and the public.
- Researches materials, pipe fittings, etc. for dimensions and clearances.
- Develops standards for survey pick-up for use when downloaded into AutoCAD Civil 3D software and liaises with surveyors to ensure these standards are adhered to.
- Develops standards and sets parameters within AutoCAD Civil 3D software to set up digital files to achieve accurate volume calculations, cross sections, profiles, road/site designs, etc.
- Carries out field construction inspection as requested.
- Follows all policies, procedures and standards of the CRD
- Performs other related duties as required.

Qualifications

- Diploma in civil engineering technology plus 6-8 years' progressively responsible and related design drafting experience; or an equivalent combination of education and experience.
- Applied Science Technology (AScT) certification (or actively seeking) or equivalent.
- Excellent communication (verbal and written), interpersonal and customer service skills are required.
- Proficiency with, AutoCAD Civil 3D, MS PowerPoint, MS Word, plotters, printers, scanners, photocopiers, fax machines, e-mail, etc.
- Working knowledge of civil, structural, mechanical engineering construction materials/practices and engineering drafting practices, standards, techniques and theories.
- Knowledge of survey mathematics, theories and practices and GPS and total station Survey Systems.
- Knowledge of civil design pertaining to buildings, sewer, water, roads, drainage and surveying.
- Ability to use personal initiative, judgement and knowledge in determining techniques, selecting presentation methods while consistently producing high quality design projects.
- Valid BC Driver's Licence (Class 5).

Applications

To apply for this exciting opportunity, please submit your resume and covering letter online at www.crd.bc.ca under "[Careers](#)".

The CRD wishes to thank you for your interest and advises that only those candidates under active consideration will be contacted.

