

TITLE: ENGINEERING SPECIALIST

CLASSIFICATION: STO 24 OR LSO2

JOB OVERVIEW

The Engineering Specialist is focused on planning and managing the engineering program within a Business Area (BA), which includes bridge and major structures, survey, resource roads, and road design. The position also manages budgets, contracts, stakeholder consultation, certification, and public safety. This position is accountable for reviewing and approving engineering activities and ensuring these are in compliance with engineering, environment and legislative standards and requirements, as well as representing the BA during audits of engineering activities.

ACCOUNTABILITIES

- Manages and leads the BCTS Business Area's engineering program, including development of operational plans, determining how program objectives will be met, and the resources and operational requirements required to meet the objectives.
- Provides senior professional advice and guidance on all aspects of authorization and management of resource roads within FLNRO mandate.
- Manages and coordinates the operational activities including the development of the Engineering program annual budget, partnering with others to manage projects and funds from other sources, and authorizing payments (expense and/or receiving authorities).
- Responsible for managing provincial infrastructure and maintaining corporate databases; and developing and implementing appropriate risk management measures.
- Uses advanced software, database tools and electronic/technical measuring, sampling and/or recording equipment to produce engineering products and ensure that road data systems are kept up to date.
- Manages and coordinates emergency response services to ensure public safety and protection of the environment.
- Manages engineering contracts and projects, communicates quality control requirements, ensures contractor standards are adequate, negotiates changes and approves related costs.
- Prepares contract, project and/or proposal documents incorporating technical standards in speciality areas and provides recommendations and support to the project and/or program area including cost estimates.
- Develops and implements quality control standards for contractors and/or clients and staff, including establishing performance indicators; and develop professional prescriptions and determine if further professional engineering approval is required.
- Acts as a qualified registered professional taking responsibility for designs, specifications and construction of projects in their field of expertise within their scope of practice as per ABCFP Professional Guidelines.
- Provides professional expertise during the development of corporate standards, and/or recommends changes in regulations, policies, procedures, and/or standards, as part of ministry and industry working groups.
- Represents the Ministry at public meetings, professional organization meetings, workshops and conferences.

- Completes feasibility and route studies including setting the design criteria, and interprets technical and professional information related to engineering projects and provides options, recommendations and implements the work.
- Reviews and recommend approvals for engineering cost estimates for appraisals.
- Develops and implements inspection and maintenance plans; and coordinates and carries out technical inspections of engineering works.
- Establishes positive working relations among agencies, resource road users and First Nations to minimize resource user conflict.
- Leads unique and complex natural resource projects/proposals/initiatives with key deliverables; leads project planning sessions to define scope and deliverables.
- Provides input to Minister Referral letters and briefing notes.
- Ensures that all work meets any prescribed certification systems requirement.
- Collaborates and makes decisions affecting stakeholders and communicates with resource users when conducting operations.
- Ensures that all work meets any prescribed certification systems requirement.

JOB REQUIREMENTS

- A degree or diploma in forest engineering, forest management, engineering or equivalent related field and two years (gained within the last five years) of experience in road, bridge and major structures design, construction and maintenance.

Or

- An equivalent combination of education and experience such as five years (gained within the last ten years) of experience in road, bridge and major structures design, construction and maintenance.
- Applicants must be registered or eligible for registration with the Association of British Columbia Forest Professionals (ABC FP) as a:
 - Registered Forest Technologist,
 - Registered Professional Forester,
 - Or another applicable professional (i.e. PENG) eligible to hold a special practice permit with the ABCFP.
- Experience in contract and or project management.
- Experience in managing complex road and or bridge construction projects.
- Must possess at minimum a valid Class 5 B.C. Driver's License that does not limit or restrict the ability to conduct the duties of the job.
- Successful completion of security screening requirements of the BC Public Service, which may include a criminal records check, and/or Criminal Records Review Act (CRRA) check, and/or enhanced security screening checks as required by the ministry (**Note: It is important that you read the job posting carefully to understand the specific security screening requirements pertaining to the position).**

PROVISOS

- Must be willing and able to withstand the rigors of fieldwork.

- Must be willing to work in adverse weather conditions.
- Must be willing and able to travel to meet job requirements.
- Must be willing and able to travel in fixed and or rotary winged aircraft and or watercraft.

PREFERENCE STATEMENTS

- Experience supervising staff.
- Budget management or financial administration experience.

KNOWLEDGE, SKILLS AND ABILITIES

- Basic knowledge of the structures and mandates of the Ministry of Forests, Lands and Natural Resource Operations and BC Timber Sales.
- Knowledge of cost and benefit analyses and of financial management and control.
- Knowledge of contract administration and project management.
- Knowledge of forest road and bridge engineering and forestry operations.
- Ability to apply and interpret relevant legislation, regulations, policy, certification standards and forest tenure administration.
- Ability to communicate clearly and effectively both verbally, in writing (respond to public inquiries, drafting professional reports and briefing materials), and or as a public presentation.
- Ability to use computer applications (such as engineering software, GIS spatial roads data, spreadsheets, databases, electronic mail, and word processing).
- Ability to review data, analyze and diagnose engineering issues and implement solutions.
- Ability to identify and assess a situation quickly and take appropriate and safe action.

BEHAVIOURAL COMPETENCIES

- Business Acumen is the ability to understand the business implications of decisions and the ability to strive to improve organizational performance. It requires an awareness of business issues, processes and outcomes as they impact the client's and the organization's business needs. (L3)
- Holding People Accountable involves setting high standards of performance and holding team members, other government jurisdictions, outside contractors, industry agencies, etc., accountable for results and actions. (L4 –supervisory positions)
- Impact and Influence is the ability to influence, persuade, or convince others to adopt a specific course of action. It involves the use of persuasive techniques, presentations or negotiation skills to achieve desired results. (L3 – non supervisory positions)
- Improving Operations is the ability and motivation to apply one's knowledge and past experience for improving upon current modes of operation within the Ministry. This behaviour ranges from adapting widely used approaches to developing entirely new value-added solutions. (L3)
- Planning, Organizing and Co-ordinating involves proactively planning, establishing priorities and allocating resources. It is expressed by developing and implementing increasingly complex plans. It also involves monitoring and adjusting work to accomplish goals and deliver to the organization's mandate. (L3)
- Results Orientation is a concern for surpassing a standard of excellence. The standard may be one's own past performance (striving for improvement); an objective measure (achievement orientation); challenging goals that one has set; or even improving or surpassing what has already been done (continuous improvement). Thus, a unique accomplishment also indicates a Results Orientation. (L3)

- Teamwork and Co-operation is the ability to work co-operatively within diverse teams, work group and across the organization to achieve group and organizational goals. It includes the desire and ability to understand and respond effectively to other people from diverse backgrounds with diverse views. (L3)