

**The University of British Columbia
STANDARD JOB DESCRIPTION**

Job Title: Engineering Technician 4

Level Definition:

Positions at this level are senior working level engineering technicians engaged in considerable development, design and construction of precision, specialized and complex equipment, instrumentation and systems for teaching and research requiring expertise in field of engineering technology and for providing consultative services with respect to feasibility and/or alternatives; work at this level requires carrying out complex or precision tasks that requires comprehensive technical knowledge, skills and capabilities in the design and development of rare equipment.

Typical Duties:

Under general direction and guided by outlines and rough specifications, performs non-routine assignments that require application of all aspects of technology.

Advises users of facilities, the feasibility and practicality of components and devices required as well as the adaptation and modification of equipment and devices for specific needs. Ascertain requirements for such items for development and design.

Designs and fabricates complex and highly precise devices and instruments; modifies and adapts equipment to meet specialized requirements.

Diagnoses fault and analyses design problem and recommends new methods or techniques to effect solution.

Carries out maintenance or preventive maintenance and repair of equipment instrumentation.

Ensures the maintenance of technical data or records of equipment and evaluates new equipment as required. Keeps informed of advances in technology and equipment and updates knowledge.

Demonstrates to and instructs other personnel in equipment usages and operation including utilization of shop and specialized equipment and techniques.

May be required to supervise and coordinate the work of other technicians.

Responsible for implementing and maintaining safety requirements as generally delegated.

Carries out any other related duties as required in keeping with the qualifications and requirements of positions in this classification.

Decision Making/Accountability:

Wide latitude for exercising independent initiative and judgment in the performance of specialized duties and responsibilities.

Supervision Received:

Works normally without technical advice or documented procedures and requires the exercise of initiative and judgment and the application of technical knowledge in resolving complex design and operational problems.

Supervision Exercised:

May supervise other technicians, checking work for accuracy and completeness; coordinates the work of others assigned to the projects; gives technical advice and assistance to junior personnel and users of facilities.

Minimum Qualifications:

Graduation from a technical college or institute or completion of a recognized apprenticeship and a minimum five years of related experience or an equivalent combination of education and experience.

Specific “abilities”, “knowledge” and “experience” required for the position are outlined in the position description.

This standard Job Description is for classification purposes only, and is not a position description. Standard Job Description qualifications represent the amount of education and experience typically required for full performance on the job, and is outlined for classification and compensation purposes. Note that specific “abilities”, “knowledge” and “experience” required for the job should be outlined in the position description and posting, but are not specified in the Standard Job Description.