### SUMMARY:
Reporting to the Network Services Technician Supervisor, the Electronics Technician works independently and as part of a team to ensure the operational effectiveness of the campus data and voice communications networks and their connections to external networks, as well as internet and research networks through BCNET.

Acts as a specialized, technical resource to staff, faculty and students with communication related equipment requiring installation, diagnoses and service. Works with clients and Network Services Analysts to determine specifics of communication failures. Diagnoses hardware and cable infrastructure failures for network connectable devices such as VoIP Phones, IP cameras, Wireless Access Points and Antennas, Uninterruptable Power Supplies, Voice Gateways, Routers and Switches.

Our normal business hours are 7:30 AM to 4:30 PM, system maintenance may be performed off-hours and major issues are responded to on a 24/7 basis.

### MAJOR RESPONSIBILITIES AND DUTIES:

1. **Responsibility:** Installs, diagnoses and services communication related equipment.

   **Duties:**
   - Installs, tests and documents network related hardware such as VoIP Phones, IP cameras, Wireless Access Points and Antennas, Uninterruptable Power Supplies (UPS), Voice Gateways, Routers, Switches, etc.;
   - Liaises with the client to determine specific symptoms of failures;
   - Liaises with Network Services Analysts to determine specific symptoms of failures and work through installation issues;
   - Diagnoses and corrects hardware failures on network related equipment;
   - Designs modifications to cure reoccurring problems.

2. **Responsibility:** Connects customers to computer networks and activates communication services.

   **Duties:**
   - Uses specialized equipment to electrically trace room ports to the telecommunications rooms where the port is connected to the requested service;
   - Wires telecommunications rooms;
   - Tests connections to ensure service is functional;
   - Investigates failures of service and restores function to the customer.
3. **Responsibility:** Maintains copper cable plant.

**Duties:**
- Terminates twisted pair cable;
- Builds copper cable paths;
- Tests copper cable paths using specialized test equipment;
- Maintains records of network connection additions or changes in appropriate database.

4. **Responsibility:** Maintains fibre-optic cable plant.

**Duties:**
- Terminates fibre-optic cable using specialized fibre splicing equipment;
- Builds fibre-optic cable paths;
- Tests fibre-optic cable paths using specialized test equipment;
- Maintains records of network connection additions or changes in appropriate database.

5. **Responsibility:** Maintains wireless networks.

**Duties:**
- Installs wireless network equipment such as access points and antennas;
- Tests wireless radio signals using specialized test equipment;
- Maintains records of wireless access point physical additions or changes within the Network Control System tool.

6. **Responsibility:** Liaises with external contractors, hardware representatives and suppliers.

**Duties:**
- Seeks technical advice in the functioning and deployment of equipment and materials;
- Supports warranty work and exchanges, returns defective products.

7. **Responsibility:** Performs duties similar in scope and complexity.

- Makes recommendations for change to related hardware and software;
- Supports other systems activities, events and initiatives, as assigned.

**REQUIRED QUALIFICATIONS:**

**Skills:**
- Strong analytical skills;
- Exceptional communication skills;
- Ability to adapt quickly to a fast paced environment;
- Ability to maintain a safe working environment and safe work habits in working conditions including exposure to dust, high voltage, glass fiber or chemical cleaning agents;
- Good physical health, sufficient strength, stamina and coordination to perform a variety of routine heavy manual tasks continuously.

**Specialized Knowledge/Education:**
- Technical Institute Diploma, trade qualifications or equivalent training in electronics.
- In-depth knowledge of copper and fibre-optic cable standards.
  - fibre-optic cable installation experience,
  - copper cable infrastructure installation experience, and,
  - TE Enterprise Networks Registered Installer certifications.
- Knowledge of networking components.
- Knowledge of LAN/WAN standards, TCP/IP principles and wireless standards.
- Thorough knowledge of occupational hazards and precautionary measures relative to work practices.

**Experience:**
- 3 years of related work experience.
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