

1. CNC Forestry/Natural Resources Applied Research

Focus Areas:

- Climate change adaptation
- Forest stewardship and management
- Forest health
- Tree breeding/improvement (pine rust resistance)
- Imagery and Light Detection and Ranging (LiDAR) scanning technologies
- Forest harvesting methods and technology
- Wildlife stewardship
- Forest ecosystem rehabilitation and restoration
- Silviculture practices
- Forest fire ecology and mitigation
- Wood products innovation
- Research services (collecting and analyzing samples, and designing and implementing sample plots)
- AI enhancement of forestry practices
- Timber growth and yield
- Invasive Species
- Intensive Forest Management
- Forest soil ecology
- Forested watersheds
- Urban forest ecosystem stewardship
- Indigenous forest ecosystem and management knowledge
- Forest carbon management
- Non-timber forest products
- Ecotourism
- Forest food and medicines
- Agroforestry Systems

Recent/current CNC Applied Research Projects:

- Wood Deterioration and Shelf-life of Beetle-killed Subalpine fir from BC Northwest (Involves creating subalpine fir Dendrochronology record)
- Patch Cutting Treatments in 2nd Growth Spruce Stands to Improve Biodiversity and Wildlife Habitat Services (Moose)

- Thinning Treatments in 2nd Growth Spruce Stands to Improve Moose Habitat
- Pitherny Recreation Area Wildfire Hazard Reduction Treatments
- Mycelium Inoculation to Rehabilitate Roads and Trails
- Beaver Coexistence with Road Infrastructure
- Wildlife Response to Post-harvest Coarse Woody Debris Piling
- Post-harvest (beetle salvage) Biodiversity and Wildlife Response
- Urban Bear Endocrine Sampling (Non-invasive via feces)
- Terrestrial Light Detection and Ranging (LiDAR) Scanning for Stand and Tree Attributes
- Response of 2nd Growth Lodgepole and Understorey Vegetation to Commercial Thinning
- Forest Soil Moisture Effects with Climate Change
- Western Toad Occupation and Reproduction in Roadside Ponds Resulting from Forest Development
- Experimental Funnel Trapping of Spruce Beetle North of Prince George – Alternative Pheromone Lure Combinations

2. CNC Investment in Innovation and Technology

- Recently investments made by CNC for its forestry/natural resource applied research and educational offerings included:
 - Light Detection and Ranging (LiDAR)
 - Multi-spectral cameras
 - Unmanned Aerial Vehicles (UAVs)

3. CNC Forestry/Natural Resources Educational Offerings

- Natural Resources Forest Technology (NRFT)
- Natural Resources Field School & Cultural Exchange (Study Abroad)
- Short-term student employment in forestry/natural resources applied research projects
- Civil Engineering Technology
- Information Technology and Networking
- Applied Science Engineering Certificate (Foundation for an engineering degree program)
- Trades including Carpentry, Power Engineering, Metal Fabrication, Pipe Trade, Electrical, Heavy Mechanical, Industrial Mechanic, Automotive Service Technician, Welding, and Pro-cook
- Continuing Education Courses