

| CNC Natural Resource Research Summary (2013 to 2018) | | | | | | | | |
|---|------|------------|----------------------------------|--------------------------------|---|----------------------------|------------|-----------|
| Project Title | Year | Funder(s) | In-kind contributions to Project | Cash contributions for project | CNC Research Team - lead researcher bolded | Student Involvement P=Paid | Start Date | End Date |
| Developing automated data collection technologies for the forest section in British Columbia | 2017 | NSERC | AscenTech | | Oro Barton | | Oct 16/17 | Apr 15/18 |
| Developing a UAV-based platform for monitoring environmental changes in northern BC | 2017 | NSERC | Avison Management Services | | Andrea Erwin Melissa Mjolsness | | May 15/17 | Dec 31/17 |
| Developing a LiDAR-based timber cruising model for the Canadian forest sector | 2017 | NSERC | Silvatech Consulting Ltd. | | Carl Pollard Greg Rose Melissa Mjolsness | Yes - P | May 1/17 | Dec 31/17 |
| Using UAV and remote sensing technology to monitor fish habitat in northern British Columbia | 2017 | NSERC | Environmental Dynamics Inc. | | Andrea Erwin Doug Jamieson Melissa Mjolsness | Yes - P | May 1/17 | Dec 31/17 |
| Researching and developing remote sensing approach to detecting stand-level spruce bark beetle attach in Central BC | 2017 | NSERC | Terrestrial Information Services | | Richard Reich Melissa Mjolsness | Yes - P | Apr 1/17 | Dec 31/17 |
| Snow Survey | 2017 | BC MoFLNRO | | | Melissa Mjolsness | | | Complete |
| Machine intelligence systems and thermal imaging technology for livestock management | 2016 | NSERC | Cabin Forestry Ltd. | | Oro Barton Jon Coutts | Yes - P | Jan 16/17 | Complete |
| Developing a Vehicle Impact Avoidance System to improve logging truck safety in British Columbia (VIAS) | 2016 | NSERC | | Splash Media | Oro Barton Justin Puis Jon Coutts | Yes - P | Nov 10/16 | Nov 9/19 |

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| Researching innovative uses of beetle trips to control spruce bark beetle populations in northern BC | 2016 | NSERC | Synergy Semiochemicals Corp. | | Melissa Mjolsness | Yes - P | Complete | |
| Industrial Research Chair-Forest Health | 2016-2020 | NSERC | Annually FP Innovations BC Timber Sales Interfor Vernon Seed Orchard Canfor Conifex Dunkley Tolko West Fraser LM Forest TDB Forest Analysis Branch Forest Practices Southern Interior Forest Branch Thompson Rivers Natural Resources | Canfor West Fraser Research Forest Vernon Seed Orchard | Richard Reich Jessica Whalen Karli Silvestrone Melissa Mjolsness Leigh Anne Dutton Matthew McLean | Yes - P | | |
| Testing LED as supplemental lighting in nurseries for production of conifer seedlings | 2016 | NSERC | Woodmere | | Sorin Pasca | | Complete | |
| Development of automated photogrammetric processes for high-resolution forest mapping applications | 2015 | NSERC | TDB Consulting Ltd. | | Richard Reich Melissa Mjolsness | | Complete | |

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| Use of UAV platforms to predict forest attributes | 2015 | NSERC | LM Resource Forest Solutions Ltd. | | Hardy Griesbauer Oro Barton Melissa Mjolsness | Yes | Complete | |
| Robson Valley Field Guide (Rocky Mountain Trench) | 2015 | BC MoFLNRO | | | Eiji Matsuzaki | | Complete | |
| Beetle Monitoring Project | 2015 | BC MoFLNRO | | | Eiji Matsuzaki | | Complete | |
| Biometrics Services for Climate Analysis Report | 2014 | BC MoFLNRO | | | Eiji Matsuzaki | | Complete | |
| Land Management Handbook Draft Field Guide for Robson Valley TSA | 2014 | BC MoFLNRO | | | Eiji Matsuzaki | | Complete | |
| Developing electronics systems for unmanned aerial vehicles | 2014 | NSERC | JR Canadian Mapping | | Oro Barton Dean Straathof John Makowsky | Yes | Complete | |
| Bear Lake Tree Measurement | 2014 | BC MoFLNRO | | | Eiji Matsuzaki | | Complete | |
| Long-term soil productivity measurements | 2014 | BC MoFLNRO | | | Stephane Dube Eiji Matsuzaki Leigh Anne Dutton | Yes | Ongoing | |

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| Robson Valley Biogeoclimatic Mapping | 2014 | BC MoFLNRO | | | Eiji Matsuzaki Leigh Anne Dutton | | Complete | |
| Soil Moisture - Critical soil moisture limitations to assisted migration in central BC | 2013-2015 | BC MoFLNRO | BC Timber Sales Wetzin'kwa Community Forest Corporation BC MoFLNRO | | Hardy Griesbauer John Neumann Leigh Anne Dutton Melissa Mjolsness | Yes | Ongoing | |
| Forest Sector Innovation | 2014-2019 | NSERC CNC Research Forest Society | Dunkley Lumber Canfor Lakeland Mills BC Timber Sales BC MoFLNRO West Fraser JR Canadian Mapping TDB Consultants | | John Neumann Hardy Griesbauer Ed Morrice Stephane Dube Greg Rose Andrea Erwin Shudao Ni Richard Reich) Laura Bass Leigh Anne Dutton Eiji Matsuzaki Melissa Mjolsness David Loewen | Yes-P | Ongoing | |
| Wildlife use of stub trees in central BC | 2013-2015 | UNBC | Dunkley Lumber | | John Neumann | Yes | Ongoing | |
| Developing a model to predict frost hazard in central BC | 2013-2015 | NSERC | Ecora Resource Group | | Hardy Griesbauer John Neumann | Yes | Complete | |

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| Preparing for assisted migration in central BC | 2011-2013 | NSERC | Dunkley Lumber BC MoFLNRO BC MoT | | John Neumann Cliff Raphael Shudao Ni | Yes | Complete | |
| Digital technology options for log haulers in central BC | 2013 | DTAPP | FP Innovations | | Zelda Craig | | Complete | |