

Yukon University  
Statement of Qualifications  
Research Professional, Northern Building Science

Department: Yukon Research Centre  
Location: Whitehorse  
Date: May, 2022

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Essential Qualifications (assessed in screening process)

Education and Training:

Minimum of completed Master's in a relevant field preferred; or Indigenous knowledge keeper of equivalent level as recognized by their community; or completed Bachelor's or Diploma in relevant field and minimum 5 years related experience. Applicants with a red-seal trade certification paired with 5 years relevant professional experience will also be considered.

Relevant training and professional experience may include architecture and design, construction engineering, civil engineering technology, mechanical engineering, construction project management, building science, or similar fields.

Demonstrated Abilities:

Experience with assessment of buildings including a sound knowledge of elements such as Structural, Mechanical, Electrical, Fire and Life-Safety, Envelope, Interiors, and Site Features

Proficiency in and application of structural theory, the National Building Code of Canada (NBC 2015), and Canadian Design Standards (O86, S16, A23.3)

Ability to design and carry out complex research projects in an academic environment

Licences/certificates: Class 5 drivers' license

Desirables:

Professional experience related to cold climate building science, engineering and design, and construction innovation.

Experience conducting Baseline Property Condition Assessments in accordance with the ASTM Standard E 2018-15 Standard Guide for Property Condition Assessments

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Rated Qualifications (factors assessed through interview, etc.)

Knowledge of:

1. Current discipline-specific research and knowledge.
2. Multi-disciplinary research methodologies and their application in a northern context.
3. Research compliance issues and funding agencies policies and processes
4. Analytical research methodologies and their application in a northern, cross-cultural setting
5. Yukon scientific and technical communities
6. First Nation, Inuit, and Metis traditional beliefs and practices

Abilities:

1. Ability to establish and maintain effective working relationships with a variety of government, non-government and academic organizations
2. Ability to use creative problem solving and decision-making while adhering to standards, policies and guidelines.
3. Ability to read, understand and effectively communicate, both professional and lay audiences, complex scientific ideas
4. Ability to interpret financial, legal, and scientific documents
5. Ability to articulate protocols for working with Yukon First Nations

6. Strong computer skills including relevant programming experience using software such as Risa, RFEM, WoodWorks Sizer, Revit, Rhino, Adobe Suite, SketchUp, AutoCAD and/or Civil 3D

Personal Suitability:

1. Strong oral, written and communication skills, including the ability to read, understand and effectively communicate, to both professional and lay audiences, complex scientific ideas
  2. Strong inter-personal, organizational, problem-solving, critical-thinking, time management, and creative skills, and a demonstrated ability to initiate actions and work with minimal supervision
  3. To work effectively with other institutions, branches, agencies and First Nations
  4. Flexibility and adaptability to changing work demands
  5. Ability to positively represent the YRC and Yukon University with colleagues, clients and the community
  6. Ability to work in a team environment – taking and receiving suggestions from the team as well as contributing positive input to the team
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