

Job Title: Research Officer, Building Acoustics

City: Ottawa

Organizational Unit: Construction

Classification: RO

Tenure: Continuing

Language Requirements: English

The NRC Advantage

GREAT MINDS. ONE GOAL. CANADA'S SUCCESS.

Canada's National Research Council represents a powerful partnering option for anyone looking to push the boundaries of science and industry. In fact, as Canada's "go-to" RTO, we have become catalysts for innovation. For a hundred years, the impact of our work with industry leaders and other government bodies has shaped Canada's future. We partner with some of the most creative and solutions-driven minds in the world.

And now, we want to partner with you. Be part of our collective force to come up with potentially disruptive solutions to Canada's current and future technology challenges. Let your expertise and inspirations make an impact by joining NRC.

Your Challenge

We are looking for a motivated and dynamic Research Officer to support our Construction Portfolio. The Research Officer (RO) would be someone who shares our core values of impact, accountability, leadership, integrity and collaboration.

The primary responsibility of the RO is to support the goals of NRC and the Portfolio through research of international calibre and the development and application of advanced technologies. The RO works in a team environment with researchers and technical experts in world-class facilities. Activities include the development of proposals for new research initiatives, project management, and providing service to NRC clients. The RO provides input into the overall direction and research priorities for the program area within the context of the Portfolio business plan.

As part of a multi-disciplinary team developing and deploying technical solutions for construction sector clients, the incumbent will support and conduct research activities dealing with the evaluation and control of sound in buildings. This includes the development and use of advanced techniques to characterize and predict sound fields in rooms, and sounds transmitted into rooms. Research activities focus on characterizing the acoustic performance of multi-unit construction, relating this performance to key construction details, modifying the design details to achieve enhanced performance for airborne and impact sound insulation.

Transferring research findings to industry and stakeholders is also an important responsibility of this position.

Screening Criteria

Applicants must demonstrate within the content of their application that they meet the following screening criteria in order to be given further consideration as candidates:

Education

PhD in Physical Science or Engineering, or related discipline, with a specialization in acoustics.

For information on certificates and diplomas issued abroad, please see [Degree equivalency](#)

Experience

- Experience in identification of research requirements, proposal writing, project management, and reporting through written documentation, presentations and publishing.
- Experience in designing and conducting research activities dealing with the evaluation and control of sound transmission in buildings.
- Experience in experimental design and analysis including data collection and analysis, overseeing data production, and ensuring data quality.
- Experience using measurement systems and analysis techniques to characterize sound fields and sound transmission.
- Experience in the prediction or rating of physical or subjective response to sound.
- Experience in business development, marketing activities, and/or the development of partnerships and collaborations would be an asset.
- Experience working with standards, specifications, or building codes dealing with acoustical performance of buildings would be an asset.
- Experience measuring or predicting flanking sound transmission using standardized approaches such as ISO 10848 and/or ISO 15712 would be an asset.

Condition of Employment

Reliability Status

Assessment Criteria

Candidates will be assessed on the basis of the following criteria:

Technical Competencies

- Advanced knowledge of physical acoustics, including sound transmission in buildings.
- Advanced knowledge of measurement instrumentation and methods to measure, control, and characterize direct and flanking sound transmission in buildings, for airborne and impact sound.
- Solid knowledge of the relationship between human perception and the physical attributes of sound, including basic knowledge of common criteria and rating systems for building acoustics.
- Solid knowledge of acoustic signal analysis.
- Basic knowledge of interrelation of acoustical performance of buildings with multidisciplinary performance aspects such as fire, thermal, ventilation.

Behavioural Competencies

- Research - Creative thinking (Level 2)

- Research - Networking (Level 2)
- Research - Communication (Level 2)
- Research - Continuous professional learning (Level 2)
- Research - Results orientation (Level 2)
- Research - Teamwork (Level 2)

Competency Profile(s)

For this position, NRC will evaluate candidates using the following competency profile(s): [Research](#)

[View all competency profiles.](#)

Relocation

Relocation assistance will be determined in accordance with the NRC's directives.

Salary Range

This position is classified as a Research Officer (RO), a group that is unique to the NRC. The RO group uses a person-based classification system instead of the more common duties-based classification system. Candidates are remunerated based on their expertise, skill, outcomes and impacts of their previous work experience. The salary scale for this group is vast, from \$49,670 to \$140,418 per annum, which permits for employees of all levels from new graduates to world renowned experts to be fairly compensated for their contributions.

Notes

- An eligibility list may be established for similar positions.
- NRC employees enjoy a wide-range of benefits including comprehensive health and dental plans, pension and insurance plans, vacation and other leave entitlements.
- Travel may be required.
- Preference will be given to Canadian Citizens and Permanent Residents of Canada. Please include citizenship information in your application.
- The incumbent must adhere to safe workplace practices at all times.
- We thank all those who apply, however only those selected for further consideration will be contacted.

As an employer who values diversity in its workforce, we encourage candidates to self-identify as members of the following designated groups: women, visible minorities, aboriginal peoples and persons with disabilities. Measures for accommodation are available to all candidates retained for further assessment.

Please direct your questions, with the requisition number (615) to:

E-mail: NRC.NRCHiring-EmbaucheCNRC.CNRC@nrc-cnrc.gc.ca

Telephone: 613-998-6825

Closing Date: 31 January 2018 - 23:59 Eastern Time

To Apply: <https://recruitment-recrutement.nrc-cnrc.gc.ca/job/Ottawa-Research-Officer%2C-Building-Acoustics-ON/356046617/>

For more information on career tools and other resources, check out [Career tools and resources](#)