

## Research Associate, Building Acoustics

Construction  
Ottawa - Ontario

RA

- This is a 2 year term position.

### Your challenge

Help bring research to life and drive your career forward with the National Research Council of Canada (NRC), Canada's premier research and technology organization.

We are looking for a vibrant and dynamic Research Associate, Building Acoustics to support our Construction Portfolio. The Research Associate, Building Acoustics would be someone who shares our core values of impact, accountability, leadership, integrity and collaboration.

The primary responsibility of the RA is to support the goals of NRC and the Portfolio through research of and the development and application of advanced technologies. The RA works in a team environment with researchers and technical experts in world-class facilities. Activities include designing and making measurements for research projects, project management, and providing service to NRC clients. The RA 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 multidisciplinary team developing and deploying technical solutions for construction sector clients, the incumbent will support and conduct research activities dealing with the control of sound transmission in multi-unit buildings. 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**

As part of the RA Program you must have received your PhD in Building Science, Electrical, Mechanical or Civil Engineering, or a Master's degree in Engineering (Electrical, Mechanical or Civil) within the last 5 years or you expect to receive the degree within the next 6 months.

## **Experience**

Experience in designing and conducting tests dealing with the evaluation and control of sound transmission in buildings.

Experience with measurement equipment, overseeing data collection, and ensuring data quality.

Experience in the prediction or rating of physical or subjective response to sound.

Experience working with standards, specifications, or building codes dealing with acoustical performance of buildings would be an asset.

## **Condition of employment**

- Reliability Status

## **Language requirements**

- English

## **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.

Solid knowledge of the physical attributes of sound, including basic knowledge of common criteria and rating systems for building acoustics.

Solid knowledge of measurement instrumentation and methods to characterize direct and flanking transmission in buildings. For example:

- Measurement of STC rating
- Measurement of IIC rating

Knowledge of both physical acoustics and acoustical signal analysis.

Ability to design and use electro-acoustic instrumentation systems to measure, control, and characterize sound fields in buildings.

## **Behavioural competencies:**

Initiative (Level 1)

Teamwork (Level 1)

Communication (Level 1)

Results orientation (Level 1)

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 NRC's directives.

## **Salary range**

- From \$49,670 to \$140,418 per annum.
- The Research Associate (RA) Program is unique to the NRC. It falls under the RO/RCO classification system which 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.

## **Closing date**

09/29/2017 (22 days)

Applications will be accepted until 23:59 Eastern Time

## **Notes**

- NRC employees enjoy a wide-range of benefits including comprehensive health and dental plans, pension and insurance plans, vacation and other leave entitlements.

- **Research Associate Program :** In order to be considered for the Research Associate Program all applicants must include a copy of their resume with their application. Additionally, two letters of recommendations, their transcripts, and a copy of their degree must also be submitted. These can be attached to the application or may follow via e-mail to the contact below no later than the closing date indicated on this poster.

Candidates must demonstrate the ability to perform original high-quality research in their chosen field. The initial appointment will normally be for a two-year term. Appointments may be extended subject to the Associate's performance and subject to the requirements of NRC. The maximum period of employment as a Research Associate is five years.

Additionally, by applying to this competition your application will be added to the national NRC Research Associate Program Inventory and may be considered for other RA positions as they become available.

For further information regarding the [RA Program](#), please visit our website.

- 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.

## To apply

All applications must be submitted on-line. **Please do not fax or email your applications.** By applying over the web, your application becomes available to managers immediately. Applications must be received no later than the closing date.

You should also be prepared to attach your résumé into the online application form in one of the following formats:

- Microsoft Word
- Rich Text Format (RTF)
- ASCII text
- PDF

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 review [instructions](#) before applying online.

Apply Now:

<http://careers-carrieres.nrc-cnrc.gc.ca/careers/jobpost.nsf/EnglishAll/A8B98CCDD354C79E85257FCE0050E6A6>

## **To obtain a copy of the job description**

Please direct your questions, with the hiring number (145-16-0267) to:

E-mail: [HRQuestionsRH\\_CG1@nrc-cnrc.gc.ca](mailto:HRQuestionsRH_CG1@nrc-cnrc.gc.ca)

Telephone: (613) 998-6825