

**Opportunity Title:** Virtual Acoustic Simulation for Community Noise

**Opportunity Reference Code:** 0001-NPP-NOV23-LRC-TechDev

**Organization** National Aeronautics and Space Administration (NASA)

**Reference Code** 0001-NPP-NOV23-LRC-TechDev

**Application Deadline** 11/1/2023 6:00:59 PM Eastern Time Zone

**Description OPPORTUNITY RESTRICTED TO US CITIZENS ONLY**

This research area focuses on the development of simulation tools required to render acoustic data in fully interactive, real-time environments with the goals of enhancing engineering data analysis and interpretation, and for performing subjective assessments. Particular emphasis is on developing synthesis and simulation tools for subjective testing of aircraft community noise, although other types of community noise including transportation (e.g. road and rail) and industrial (e.g. wind turbine) sources are also of interest. A multidisciplinary approach consisting of signal processing; source, propagation and receiver modeling; and virtual environment simulation is required. Computational and laboratory facilities at NASA Langley, including the newly renovated Exterior Effects Room (EER), are available for this work.

**Location:**

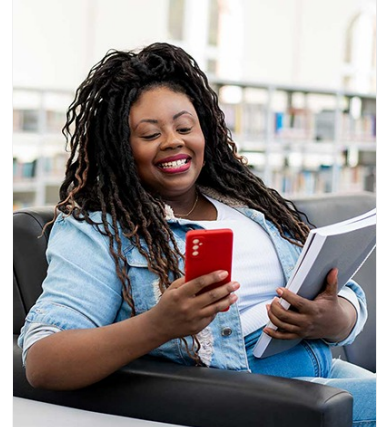
Langley Research Center  
Hampton, Virginia

**Field of Science:** Technology Development

**Advisors:**

Stephen Rizzi  
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- Eligibility Requirements**
- **Citizenship:** U.S. Citizen Only
  - **Degree:** Doctoral Degree.



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