



Research Civil Engineer (Structural)

Duties:

- Conducts research and development in the Materials and Structures Branch to address military and civil works infrastructure needs, with a focus on remote structural health monitoring and condition assessment of large-scale civil and military infrastructure.
- Initiates, plans and conducts scientific investigations in the laboratory and in the field, including development of test protocols, instrumentation plans, and data acquisition parameters.
- Builds and utilizes numerical models of infrastructure to analyze structural behavior (familiarity with or willingness to learn **Abaqus** is preferred).
- Collects and analyzes sensor data from static and dynamic loading events on structures to characterize structural behavior.
- Processes data in mathematical computing languages to inspect for features indicative of structural condition (**Python** or willingness to learn Python preferred).
- Regularly meets with project stakeholders to discuss stakeholder needs, inform stakeholders on progress, and communicate project results.
- Develops refereed journal articles, conference papers, presentations, and technical reports.
- Check out this **example storyboard** to learn more the impact of this role!

Level/Salary Range: DB2 or DB4 (Equivalent to GS 5-11 or GS 12-14).

Level placement depends on the candidate's experience, education, and other qualifications.

View General Schedule (GS) ranges [here](#).

