Postdoc: Harnessing Real-time Weather Data for Bridge Inspection
University of Notre Dame

Job Title	Postdoc: Harnessing Real-time Weather Data for Bridge Inspection
Department	Department of Civil & Environmental Engineering & Earth Sciences
Institution	University of Notre Dame Notre Dame, Indiana
Date Posted	Sep. 26, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Structural Engineering Civil Engineering
Apply Online Here	https://apptrkr.com/6596979
Apply By Email	

Job Description

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Postdoc: Harnessing Real-time Weather Data for Bridge Inspection

Specialized Lab: Kinetic Structures Laboratory (https://ashleythrall.com/)
Department: Department of Civil & Environmental Engineering & Earth Sciences (www.ceees.nd.edu)
Institution: University of Notre Dame
Location: Notre Dame, IN
Application Deadline: Open until filled
Type: Full-time
Position Start Date: Fall 2025 (preferably) or early Spring 2026
Proposed Minimum Salary: $65,000

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Civil & Environmental Engineering & Earth Sciences at the University of Notre Dame. The successful candidate will perform cutting-edge research investigating near real-time weather data to improve guidance for bridge inspections following rainfall events. Recent rainfall events in Indiana have washed out bridges, resulting in broken transportation networks and loss of life. The National Oceanic and Atmospheric Administration (NOAA) provides near real-time weather information that integrates data from radar, rain gauges, satellites, numerical predictions, and other observations (i.e., lightning, surface, upper air). This research will investigate the use of this publicly available data to trigger bridge inspections, with the aim of improving public safety.

The Postdoctoral Research Associate will join a vibrant team of scholars in the Kinetic Structures Laboratory. This research is funded by the Indiana Department of Transportation (INDOT) and will include significant interaction with INDOT staff, providing unique opportunities for professional development. Funding is available to present at technical conferences.

Required Qualifications
Ph.D. in structural engineering, hydrology, or data science.

Preferred Qualifications
Proficient in Python coding and cloud computing.

Application Process
Applications will be reviewed immediately until the position is filled. Interested candidates should email a cover letter, CV, and contact information for three references to Dr. Ashley Thrall (athrall@nd.edu).

Equal Employment Opportunity Statement
The University of Notre Dame seeks to attract, develop, and retain the highest quality faculty, staff and administration. The University is an Equal Opportunity Employer, and does not discriminate on the basis of race, color, national or ethnic origin, sex, disability, veteran status, genetic information, or age in employment. Moreover, Notre Dame prohibits discrimination against veterans or disabled qualified individuals, and complies with 41 CFR 60-741.5(a) and 41 CFR 60-300.5(a). We strongly encourage applications from candidates attracted to a university with a Catholic identity.

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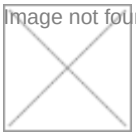

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Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

Department of Civil & Environmental Engineering & Earth Sciences

University of Notre Dame

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