New-Generation Structural Health Monitoring and Damage Detection with Machine Learning and Deep Learning Tools

- **Funded Ph.D. Positions.**
- **West Virginia University (Morgantown, WV).**
- **Begins Fall 2024.**

Summary: Funded Ph.D. positions are available beginning **Fall 2024** in the Department of Civil and Environmental Engineering at **West Virginia University** under the supervision of **Dr. Onur Avci**.   [Onur Avci - Google Scholar]

The research encompasses topics of Structural Health Monitoring (SHM) and Structural Damage Detection (SDD) utilizing:

- **Vibration-based and vision-based methods**
- **Machine Learning / Deep Learning tools**
- **Autonomous devices (drones with LiDAR, infrared, high-speed camera, etc.)**

The research group focuses on innovative infrastructure systems as well as structural stability, serviceability, and resiliency.

Qualifications: The applicant must hold an **MS degree in structural engineering**. Strong background in **structural dynamics** is needed. The applicant must be experienced with the Matlab/Simulink and/or Python programming environment.

How to apply: Please email Dr. Onur Avci (onur.avci@mail.wvu.edu) as soon as possible for initial screening. Please include a CV, transcripts, relevant publications, and email addresses of references.