



2025–2026 DISTINGUISHED INSTRUCTOR  
**SHORT COURSE**

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PURDUE UNIVERSITY

**THURSDAY, 19 MARCH 2026**

**HOST INSTITUTE: SEGJ**

**VENUE:** *Japan Organization for Metals and Energy Security (JOGMEC) Technology & Research Center*

# SEISMIC METHODS FOR URBAN ENGINEERS

## GENERAL INFO

- **Gain Insights**  
Explore seismic methods tailored for urban geotechnics
- **Enhance Decision-Making**  
Learn how seismic tools improve urban development
- **Mitigate Risk**  
Assess geological variability and external disturbances
- **Integrate Theory and Practice**  
Translate geophysical knowledge into real-world engineering applications
- **Contribute to Sustainability**  
Use seismic techniques for continuous monitoring and minimal environmental impact

## OBJECTIVES

- **Wave Propagation Fundamentals**  
Seismic waves, rock/soil physics, and modeling
- **Data Acquisition and Analysis**  
Equipment, digital signal processing, active and passive seismic methods
- **Case Studies**  
Singapore landfill, deep bedrock mapping, tunnel monitoring, groundwater studies
- **Future Directions**  
Machine learning, urban activity monitoring, and beyond

## WHO SHOULD ATTEND

Geoscientists, Engineers

## LEARN MORE

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