

2023 Fall Ph.D. Position in Civil Engineering Focusing on Building Information Modeling and Energy Simulation at Washington State University

The Built Environment Technology Application (BETA) research lab is recruiting a motivated, collaborative, and curious Ph.D. student to work on Building Information Modeling and Energy Simulation (BIMES) research at Washington State University (WSU). The student will work under Dr. Hongtao Dang's advice and supervision in collaboration with the Pacific Northwest National Laboratory (PNNL) through the Distinguish Graduate Research Program (DGRP). The DGRP offers world-class opportunities to tackle scientific challenges in energy and environmental areas. Through the PNNL-WSU DGRP, Ph.D. students will earn a stipend and benefits funded by their WSU and PNNL advisors while working under a prestigious graduate committee on nationally relevant research. It is a unique opportunity to tap into both institutions' knowledge and world-class research infrastructure. DGRP students will work with faculty at WSU and scientists at PNNL while completing their graduate coursework. They will subsequently transfer to PNNL for the remaining years of their Ph.D. program to gain hands-on research experience with PNNL scientists.

Required qualifications and skills

- BA/BS and a master's degree from a design, architecture engineering, civil engineering, construction-related discipline, or similar field.
- Research experience in Building Information Modeling, Building Energy Modeling, or Building-to-grid integration.
- Excellent writing, communication, and BIMES software skills.
- Strong commitment to publishing and presenting research findings.
- Strong commitment to a respectful and inclusive environment.

Funding

A research assistantship funds this position. The selected student will complete the initial two years of the DGRP at WSU and the subsequent two years of the DGRP at PNNL.

Application

If interested, please contact Dr. Hongtao Dang at hongtao.dang@wsu.edu and share your resume/CV in the email. Please also briefly discuss the following: 1) your previous research experience and/or relevant skills, 2) your research interests, and 3) why you are interested in joining this project team. The application should be completed before March 20, 2023. Please contact Dr. Hongtao Dang if you have any questions about the position.

Useful links:

- PNNL-WSU DGRP: <https://natlab.wsu.edu/dgrp/>
- CEE Application Requirements: <https://ce.wsu.edu/graduate/application/>
- International Requirements: <https://gradschool.wsu.edu/international-requirements/>
- Graduate School Requirements: <https://gradschool.wsu.edu/degrees/doctor-of-philosophy-civil-engineering/>

Washington State University is one of just 131 U.S. colleges and universities—out of 6,500+ public and private institutions—named among doctoral universities with "very high research activity" in the Carnegie Classification (2018). This designation represents the highest level of research activity for doctoral institutions.