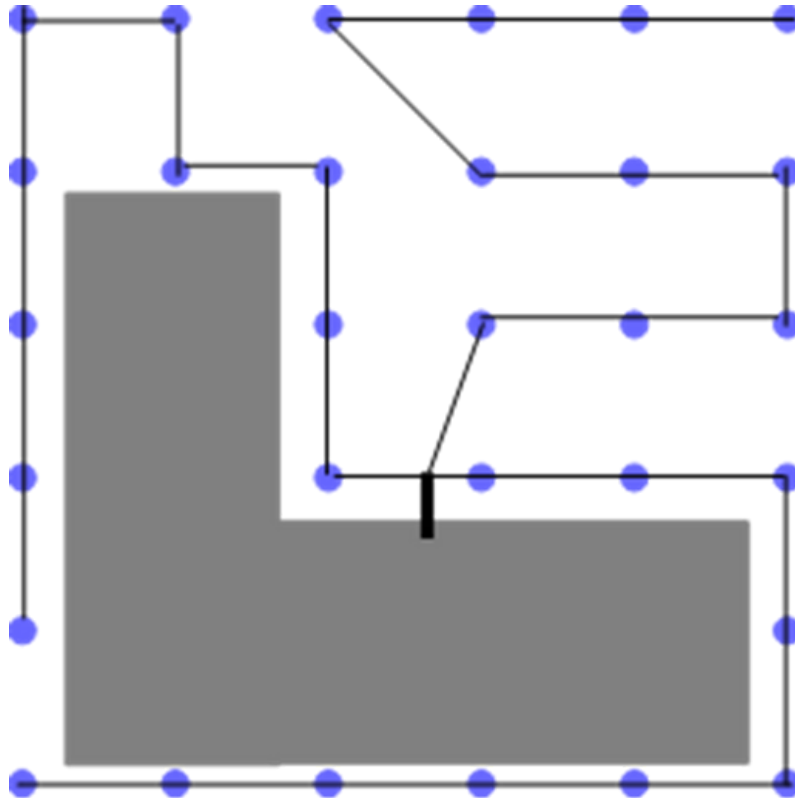


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# Optimization of Ground Heat Exchanger Thermal and Hydraulic Design

*Project Number 22-05*



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## PROJECT TEAM:

Students: Timothy West,  
Faculty: Jeffrey D. Spitler

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## Goal

Project aims to develop automated methods for hydraulic design of ground heat exchangers (GHE), complementing recently developed automated thermal design methods

## Outcomes/Deliverables

This project will deliver: a comprehensive GHE cost function, a hydraulic-circuiting algorithm based on graph theory, a pipe sizing interfaces, and simple user interface