

JESSE C. LI, E.I.

Staff Engineer - Raleigh, NC

Academic Credentials:

B.S. Environmental & Ecological Engineering, 2018
Purdue University, West Lafayette, IN
M.S. Civil Engineering, 2019
Purdue University, West Lafayette, IN

Professional Credentials:

Engineer Intern Certificate

Employment Record:

2019 - Present - Smith Gardner, Inc.

Areas of Expertise:

Stormwater Modeling and Design
Leachate Management System Design
Environmental Compliance



Mr. Li has experience with the review of leachate system management, leachate management system design, looking specifically at pump station design and selection. He also has experience in preparing drawings, technical specification documents, construction quality assurance documents, stormwater calculations, and financial assurance estimates for major permit modifications.

Mr. Li is a graduate of Purdue University receiving his undergraduate degree in Environmental and Ecological Engineering and his master's degree in Civil Engineering. He chose to pursue an environmental engineering degree after discovering interests in water resources management and water chemistry early on in his coursework. These interests were strengthened after completing summer internships in public works, environmental health and safety, and site civil engineering consulting. As an undergraduate, Mr. Li was part of a team of Purdue Environmental Engineering students that were involved in a project to help optimize an activated carbon system at a water treatment plant in Indianapolis, IN. They primarily focused on reducing contaminant concentration and turbidity through lab testing and a conceptual reconfiguration of the water treatment plant.

After completing his environmental engineering degree, Mr. Li continued on to pursue a master's degree in Civil Engineering focusing on hydraulics and hydrology. His master's degree coursework included coastal engineering, groundwater modeling using MODFLOW, hydrologic modeling using HEC-HMS and GIS, stream restoration design, and solid and hazardous waste management.

Since starting at S+G, Mr. Li has begun organizing and tracking landfill sites that require periodic stormwater discharge monitoring covered by NPDES. He has also been involved in the review of a leachate management system design, looking specifically at pump station design and selection. He has helped prepare drawings, technical specification documents, construction quality assurance documents, stormwater calculations, and financial assurance estimates for a major permit modification to a Class 2 landfill in South Carolina. Mr. Li has field experience in discharge management, system monitoring, and recording data and stack testing during air emissions monitoring.