



Creating ecological solutions through innovative engineering

Environmental Designer

Wildlands Engineering seeks individuals with a passion for environmental conservation and a desire to create a lasting impact to join our growing company. We are seeking an entry-level environmental designer in our Springfield, VA office. This position will support the design of complex ecosystem restoration projects, field assessments, hydrologic and hydraulic modeling, and stormwater management. The ideal candidate will have 0 to 2 years of water resources experience and a basic understanding of the ecologic and hydrologic processes important to ecosystem restoration, water quality, and stormwater management in the southeastern United States.

Company Information

Wildlands Engineering, Inc. was founded in 2007 and focuses on stream and wetland restoration, watershed planning and assessment, and water quality management, with offices in North Carolina, South Carolina, Tennessee, and Virginia. Wildlands Engineering provides water resources engineering, ecosystem restoration, mitigation banking, and consulting services to various clients, including local and state government and conservation organizations. Our dedicated, motivated, and highly trained team is committed to a watershed and ecosystem approach to ecological restoration and water quality management, and we provide exceptional services to our clients in an uncompromisingly ethical, innovative, and time-sensitive manner.

Job Description

Key Responsibilities

- Prepare concept stream alignments and profiles, create construction plans and details, model FEMA floodplain elevations, design and model culverts, submit erosion control permits, and more using AutoCAD Civil3D and ArcGIS software.
- Collaborate with Senior Designers and Project Managers to implement comprehensive stream and wetland restoration projects, including assessment, design, modeling, construction plans, construction specifications, erosion control plans, and construction oversight.
- Conduct fieldwork with our engineers and scientists to assess and monitor our projects.
- Write technical reports to support assessment, design, and modeling tasks.
- Prepare and troubleshoot models to support design; software may include HEC-RAS, HEC-HMS, and HY-8.

Ideal Qualifications

- A four-year degree in biological systems, civil, agricultural, or environmental engineering; biology, ecology, environmental science, geography, or another related field. Preferred coursework includes any of the following: water resources engineering, civil engineering, stream/wetland/ecological restoration, stormwater management, hydrology/hydraulics, soil science, biology, ecology, surveying, fluvial geomorphology, fluid mechanics/open channel flow, and sediment transport.
- Up to two years of water resources experience.
- Experience designing ecosystem restoration projects and stormwater control measures.
- A general understanding of ecological processes relevant to riparian and wetland restoration in the southeastern United States.
- Experience with hydrologic and/or hydraulic modeling and understanding of open channel flow.



- Experience with ArcGIS and/or AutoCAD Civil 3D.
- Experience preparing construction documents, including construction plans, erosion control, bid estimates, technical specifications, and technical reporting.
- A graduate degree in a related field and/or professional licensure as an Engineering Intern is preferred.
- Proficiency using Microsoft Office, including Excel.
- Ability to meet the physical demands needed to complete various field assignments.
- Candidates must have a valid driver's license.

Exempt/Non-Exempt Status: Exempt

PLEASE SEND RESUME AND COVER LETTER TO:

Email (*preferred method*): resumes@wildlandseng.com; subject line: Entry-level Environmental Designer

Mailing Address: Wildlands Engineering, 1430 S. Mint Street, Suite 104, Charlotte, NC 28203

A cover letter is required and should detail the candidate's interest in Wildlands and their specific qualifications related to this position. Please be prepared to provide contact information for up to three references if requested. Interviews will be conducted on a rolling basis as applications are received. Applicants interested in one of our other office locations should submit a resume and cover letter and identify their preferred location. **This advertisement is open through November 17, 2023.**

Wildlands will not pay a fee to a recruiter or agency, nor will Wildlands consider resumes and applications submitted by a recruiter or agency that does not have a signed agreement with Wildlands.

Wildlands Engineering, Inc. provides equal employment opportunity regardless of race, color, religion, age, national origin, sex, sexual orientation, gender identity/expression, disability, veteran status, genetic information, or any other basis protected by federal, state, or local laws.

Wildlands Engineering, Inc. maintains a drug-free workplace.