

Hydraulic/River Engineer Job description

Description

Junior/Engineer/Senior roles vary responsibility depend on capabilities and workload. Senior roles are expected to be mostly independent. Engineer and Senior Engineer roles are expected to help mentor Junior staff. We're a small team and everyone works together to help each other out.

The following description covers most of our work:

Hydraulic engineer (Jr/Eng/Sr) will work on a variety hydrologic, hydraulic, and geomorphic analysis and design projects. Our work includes hydraulic modeling (1D/2D open channel) of rivers and creeks, in-water design, hydrologic basin analysis, and geomorphic assessments. Develop engineering designs for scour and bank protection, river restoration, relocated channels, and other in-stream work. Junior engineer will work closely with experienced engineers on a wide variety of H&H projects and be involved from the analysis through design and construction phases. Majority of our clients are select public (Counties, Cities, etc) or large private infrastructure. We strive to provide a higher level of work quality than standard and are looking for highly capable engineers to learn, grow and support these projects.

Typical Tasks

- Hydrologic Analysis: Gaged flow frequency analysis, basin modeling, flow calculations
- Hydraulic Analysis: 1d or 2d modeling, normal depth calculations, hydraulic controls
- Geomorphic Analysis: Scour evaluations, sediment transport studies, bank erosion analysis
- In-stream Design: protection, channel relocation, large woody debris, habitat
- Urban Stormwater: Basin hydrologic and hydraulic modeling, site specific modeling for design

Minimum Qualifications

- Bachelor's Degree in Civil Engineering (or closely related field) from ABET accredited program
- Master's Degree in Civil Engineering w/ Hydraulic or Hydrologic Thesis
- EIT license
- Basic understanding of hydraulics and hydrology
- This role is for applicants from 0-5+yr experience. If you have more experience we'd be happy to consider you for a mid-level or more senior role. Please submit a cover letter and resume through our website www.indicatoreng.com

Desired Qualifications

- 1-3 years of consulting or public works experience
- Hydraulic Modeling experience: Open Channel (HEC-RAS, HY8), 2-D depth-averaged, SWMM stormwater/combined basins,
- Hydrologic Modeling experience: HSPF or WWHM, HEC-HMS
- Flow frequency analysis (understanding peak annual flows, water year, daily flows, more advanced statistics) (HEC-SSP)
- Sediment Transport concept understanding, analysis, modeling

- Design experience with open channel geometry, large woody debris stability, sediment sizing
- GIS (qgis) and Civil3D/Autocad experience
- Python Coding experience
- Surveying (Total Station, GPS-RTK) and stream gaging experience a plus

Other Notes:

Indicator Engineering PLLC is an equal opportunity employer. We are a small firm of just a couple engineers specializing in hydraulics, hydrology and geomorphology in Washington. Position includes occasional field work, long days, travel is typically within WA, typical 40 hour work week. Ideal candidate can drive to occasional site visit or construction site and can support in-stream field activities over rough uneven ground. This is a salaried position, with competitive benefits and laid-back small office work environment. We're more focused on delivering high quality H&H engineering work than squeezing every hour out of our staff. Salary is DOE, as are the position's responsibilities and training opportunities. All submitted information is assumed to be private and will not be shared with any other employers.

Job Type: Full-time

Pay:

- \$64,000.00 - \$85,000.00 per year for Jr Engineer (typical range)
- Engineer and Sr Engineer pay negotiable
- PTO, holiday, healthcare included.

COVID-19 considerations:

Small office and we've been following local and state guidelines. In general we're back in the office, though remote work in State is possible. We've found juniors tend to excel with more frequent and informal support provided in person.

To Apply Please Submit the following as PDF to office@indicatoreng.com:

- Cover letter (brief description of your background and work interests, etc)
- Resume (education, work experience, software knowledge, etc)
- Questionnaire (Please answer the questions below)
 1. Will you be able to reliably commute or relocate to Seattle, WA for this job?
 2. How many years of Civil Engineer experience do you have?
 3. Are you authorized to work in the United States?
 4. Do you have a valid Engineer In Training License (FE in Civil Eng.)?
 5. Do you have a valid Professional Engineer License in WA?
 6. What is the highest level of education you have completed?