

HYDROLOGIC AND HYDRAULIC ENGINEER

Major Duties and Responsibilities:

- Conduct hydrologic and hydraulic studies using computer models, data research/capture following applicable standards and data capture protocols. Will involve using a variety of software including, but not limited to: HEC-RAS, HEC-GeoRAS, HEC-HMS, HEC-GeoHMS, and ArcGIS. Projects may use both steady and unsteady computational modes.
- Prepare publication-ready profiles, tables, maps, reports and other modes to communicate technical results, data research, model development, and methodology meeting applicable standards.
- Perform Quality assurance checks of models, graphics and reports.
- Support activities associated with proposal preparation, including providing technical data and information.
- Coordinate activities with project team, engineers and GIS Specialists.
- Participate in meetings with team, agency staff, local officials, general public, and private consulting engineers.
- Other related duties as assigned and special projects as needed.

Position Requirements and Qualifications:

Education:

Required: Bachelor of Science degree in Engineering (Civil, Water Resources, Environmental or similar curriculum) with coursework in hydrology and hydraulics. Alternate degree fields will be considered/accepted depending upon the nature and depth of the experience as it relates to the position. Course work (or equivalent work experience) using HEC-HMS and/or HEC-RAS or similar software and familiarity with ArcGIS.

Preferred: Master of Science and additional coursework in GIS, urban storm water management; engineering economics, statistics.

Experience:

Required: Some work experience, a research assistant at a university, internship, or other position.

Preferred: Professional work experience using hydrologic and hydraulic models. ArcGIS Experience using data sets such hydrography, topography, DEMs.

Training:

Required: Must have passed the Fundamental of Engineering Exam and be an Engineer in training (EIT) in Illinois (Registration as a Professional Engineer expected as soon as practicable). Must attain Certification as Floodplain Manager within one year of employment.

Preferred: Registration Professional Engineer in Illinois. Registration as a Certified Floodplain Manager is very desirable.

Knowledge:

Required: Must have solid understanding of the fundamentals of surface water hydrology and hydraulics. Effective communication, organizational, personal relations, technical writing skills. Demonstrated ability to perform in a professional demeanor in a diverse and fast-paced work environment consisting of multiple and changing priorities, under minimal supervision. An attention to detail. Proficiency in commonly-employed software and databases, such as Microsoft Office Suite.

Preferred: Knowledge of HEC-1, HEC-2, HEC-RAS, HEC-GeoRAS, HEC-HMS, HEC-GeoHMS, and/or SWMM helpful. Familiarity with Federal Emergency Management Agency (FEMA), Flood Insurance Rate Maps and Studies, and technical guidelines helpful. Working knowledge of ArcGIS 10 or higher

Proposed start date: as soon as possible after close, or until a suitable candidate is identified.

Salary: is commensurate with qualifications and experience.

Appointment status: full-time, grant/contract funded, benefits eligible, academic professional position

Application procedures: Please complete your candidate profile at <http://jobs.illinois.edu> and upload a cover letter, CV/resume, and the contact information for three professional references must be received **by March 29, 2018**. Interviews may be conducted before the closing date; however, no hiring decision will be made until after that date. All requested information must be submitted for your application to be considered.

For further information regarding application procedures, you may contact Hannah Dorsey at (217)333-4978 or hdorsey@illinois.edu.

The University of Illinois conducts criminal background checks on all job candidates upon acceptance of contingent offer.