

Water Resources Engineer

Aterra Solutions is an engineering consulting company with an entrepreneurial approach to the market providing services to a variety of private and government clients. Our mission is to provide cost effective services of exceptional quality and value in a safe and sustainable manner. We are currently seeking a motivated, creative, and passionate water resources engineer with up to 5 years of experience. Successful candidates will support our growing dam, levee, and flood control practice, as well as other water resources-related projects, located in our Ambler, Pennsylvania office. You will work collaboratively with a talented team of recognized technical experts and leaders in the field of water resources engineering.

Responsibilities & Duties:

- Develop hydrologic and hydraulic (1D, 2D, and 3D/CFD) models in support of flood hazard mitigation studies, probable maximum flood studies, probabilistic flood hazard assessments, dam/spillway rehabilitation studies and design, and stormwater infrastructure design.
- Perform assessments and develop design options, alternatives, or recommendations for dam rehabilitation and spillways.
- Perform dam safety inspections and risk assessments to satisfy dam safety requirements.
- Support development of probable failure mode analyses for hydropower facilities.
- Perform levee evaluation and certification studies.
- Communicate and collaborate with the project team and clients.
- Compile and present results of engineering and planning studies in reports and presentations.

Minimum Qualifications:

- Master of Science degree in Civil/Environmental/Water Resources Engineering.
- In-depth understanding of fluid mechanics, hydrology, and hydraulics.
- Proficiency in HEC-HMS, HEC-RAS, AutoCAD (Civil 3D), and GIS (ArcGIS or QGIS).
- Entrepreneurial spirit and strong written and verbal skills.

Desirable Qualifications:

- Experience with other hydrologic and hydraulic modeling software.
- Experience with Federal Emergency Management Agency, U.S. Army Corps of Engineers, and Natural Resource and Conservation Service requirements for flood control projects, as well as State and other industry guidelines.
- Professional engineer or engineer-in-training with intent to obtain professional engineering license.

Additional Information:

- Highly competitive salary.

Aterra Solutions Position Posting
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- Company sponsored medical and dental benefits.
- 401(k) Plan with partial employer match.
- Flexible work hours and personal time off.
- Flexible work location (including remote).
- Main office conveniently located near train station allowing easy commute in and out of Center City Philadelphia and surrounding towns.

Visit our website to learn more about us: www.aterasolutions.com.

Aterra Solutions is an equal opportunity employer. All suitably qualified applicants will receive consideration for employment based on objective criteria.