

Computational Fluid Dynamics Engineer (CFD)

The Company

Hydro Green Energy, LLC is a for profit renewable energy project developer and integrator that designs, builds, and operates kinetic hydro power projects that generate electricity exclusively from moving water (river currents, tidal currents, and ocean currents) without having to construct dams, impoundments, conduits, or other infrastructure projects.

Our headquarters are in Houston, TX. For more information, visit our website at www.hgenenergy.com

Job Description

We are currently seeking candidates with significant axial and/or centrifugal turbo-machinery design and Computational Fluid Dynamic (CDF) modeling experience. This individual must be able to quickly formulate a modeling approach, create three-dimensional computational meshes, apply boundary conditions, appropriately direct the flow solver, post-process the solver's output, and effectively communicate the significance of the solution at hand. Other potential hydro/CFD applications include unsteady hydrokinetic analyses, multi-phased flow, and external hydro dynamics. An applicant having keen skills in computational domain meshing and secondary cooling/leakage flow modeling is preferred.

Qualifications:

- Bachelor of Science degree in Mechanical or Aerospace Engineering
- Minimum of 5 years experience
- Understanding of fluid dynamics, computational fluid dynamics simulation, computational domain meshing, and heat transfer principles, and ability to conceive ideas to solve hydrokinetic design problems
- Must work well with internal and external team members and customers, and must be able to present results effectively.
- Proficiency with ICEM-CFD, Fluent, ANSYS, Unigraphics, and MATLAB software packages is preferred
- Experience with Computational Fluid Dynamic (CFD) codes desirable
- Six Sigma training is also very desirable
- Strong communication, technical presentation, teamwork, and Microsoft Office skills required
- Apply both proprietary and commercial computational software.
- Work closely with other Hydro Green Energy, LLC's engineering groups to define the modeling objectives, obtain the required model inputs, and review the modeling results.

- Present modeling results to both internal and external customers in the form of written reports and oral presentations
- Review technical work of other engineers performing modeling projects

The Qualified Candidate

Candidates must possess a bachelor's degree in mechanical or chemical engineering or other related fields. A master's degree is highly desirable. Familiarity with commercial grid-generation software (Gambit, Patran) and computational software (Fluent, CFX) is essential. Programming experience (C, Visual Basic, Perl) is desirable. Prior experience in managing several modeling projects simultaneously (from proposal stage to final report) is also desirable. Excellent interpersonal skills are required

Salary Benefits

Salary commensurate with experience. In addition to competitive pay, stock options and bonus programs. Hydro Green Energy, LLC offers comprehensive benefits including medical, dental, vision, 401k, paid vacation & holidays and opportunities in advancement.

Hydro Green Energy, LLC offers a drug free, smoke free workplace and is an Equal Opportunity Employer