

Senior Structural Engineer - San Diego CA, Portland OR, Austin TX, or Ottawa CN

GL-Garrad Hassan is the world's largest renewable energy consultancy. GL GH offers independent technical and engineering services, products, and training courses to the solar, onshore and offshore wind, wave, and tidal energy sectors worldwide. GL GH has no equity stake in any device or project. This rule of operation is central to a philosophy which sets them apart from many other players and underlines their independence.

As part of the company's service offerings, the Independent Engineering and Due Diligence Group performs independent assessments of the engineering design and construction of utility grade wind and solar power developments. The IE Group supports various stakeholders in the development, pre-construction, and construction phases of the renewable project life cycle. GL GH's clients include project developers, financial and insurance institutions involved in wind and solar projects.

The Opportunity

As Senior Structural Engineer you'll join a team of civil and geotechnical engineers in the Civil Engineering Group. Your primary responsibilities will be focused on reviewing the design specifications and plans for foundations for utility grade wind and solar power developments. The Sr. Structural Engineer role requires demonstrated competence in structural engineering concepts including fatigue analysis of reinforced concrete, foundation analysis, design and associated codes, and/or geotechnical engineering concepts including shallow and deep foundation design, ground improvement techniques, settlement analyses, and evaluation of geotechnical hazards. You'll be supporting multiple projects simultaneously. At GL GH you're expected to manage your own priorities and workload while confidently adapting to new challenges as they arise.

At GL GH a project due diligence review addresses all aspects of the energy plant including the turbines or solar panels, the electrical substations, the service roads, the energy resource assessments, and review of the various contracts and financial models. As Senior Structural Engineer your core responsibilities will be components of these works that are in the arena of civil engineering, and chiefly structural engineering. You will perform independent calculations to determine foundation fitness for purpose and general building code compliance. You may be asked to review other civil designs in the context of wind or solar energy plant components. The Senior Structural Engineer must be able to infer design and construction competence from review of a variety of documents, data, and visual inspection in order to make recommendations and position statements to clients on behalf of the company. As Senior Structural Engineer you'll be responsible for communicating and resolving technical issues with clients placing a premium on the clients' time and potential lack of civil engineer training. Independent engineers write due diligence assessment reports for utility scale wind and solar power generation projects. GHA's clients are often financial companies that rely upon these reports as part of their investment decision making process.