



Vertical Bridge Job Description

Job Title:	Design Engineer II	Date:	01/29/19
Department:	Operations	Location:	N. Sioux City, SD
Reports To:	Vice President of Structural Engineering	FLSA Status:	Exempt

Purpose:

Responsible for supporting the Engineering/Operations team in maintaining the structural integrity of the Vertical Bridge tower portfolio.

Job Functions:

1. Perform structural analysis on existing tower structures / communication structures to determine their structural capacity
2. Review structural analyses performed by Design Engineers for thoroughness and accuracy
3. Perform structural calculations on foundations for tower structures / communication structures to determine their capacity
4. Review foundation calculations performed by Design Engineers for thoroughness and accuracy
5. Perform seismic calculations on existing tower structures / communication structures to determine if the seismic loading or wind loading governs
6. Design tower complex tower modifications to reinforce tower structures if the loading parameters produce areas of overstressing. Coordinate the design with drafting to produce accurate detail drawings for bidding and construction purposes
7. Analyze existing antenna mounts to determine their ability to support the proposed loading
8. Review input information provided by the Design Engineers for thoroughness and accuracy
9. Write professional engineering analysis, construction reports and review peer reports. Reports to be used by city, county, and state jurisdictions for permitting
10. Stay current with the standard changes effecting the tower and communication structures industry and as tenants and clients change and modify their loadings
11. Represent Vertical Bridge on various TIA sub-committees to provide input in the tower industry
12. Coordinate with outside consulting firms, tower crews both verbally and in writing when necessary to make sure projected dates of field work is completed on time
13. Utilize the company's work flow process to communicate engineering analysis results to operations and leasing teams
14. Assist with the tower defect review process during acquisition process of new towers
15. Assist the tower repair and maintenance process on an ongoing basis
16. Provide input and think creatively to help improve efficiency on how the engineering department is performing various tasks
17. Aid in the training of new engineers in the tower industry, running structural analyses, etc.

Supervisory Requirements:

None

Working Conditions and Physical Demands:

Position will work directly from the Engineering office with minimal travel. Required to attend department and company meetings.



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Qualifications:

1. Four-year degree with emphasis in civil / structural engineering required
2. Master's degree in Structural Engineering a plus
3. Minimum 3 years' experience in structural engineering required. Prefer communication tower industry experience
4. Registration as a professional engineer preferred
5. Knowledge in TNX Tower, RISA 3D, Tekla Tedds, AutoCAD, L-Pile and other software a plus but will provide training
6. Knowledge with the various building codes and standards, IBC, TIA Rev G, ACI, ASCE – 7
7. Demonstrate the ability to multi-task and prioritize efficiently
8. Effective in an entrepreneurial culture, working independently and as part of a team

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