



## Vertical Bridge Job Description

<b>Job Title:</b>	Design Engineer II / Safety Manager	<b>Date:</b>	3/02/21
<b>Department:</b>	Operations	<b>Location:</b>	Boca Raton, FL
<b>Reports To:</b>	Vice President of Structural Engineering	<b>FLSA Status:</b>	Exempt

### **Purpose:**

Responsible for supporting the Engineering/Operations team in maintaining the structural integrity of the Vertical Bridge tower portfolio. In conjunction, manage the safety requirements as outlined per Vertical Bridge's corporate policies and industry best practices for companies working on Vertical Bridge tower sites.

### **Job Functions:**

#### *Design Engineer*

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 workflow 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.

#### *Safety Manager*

18. Maintain and update the Vertical Bridge's Safety Manual along with the VB safety committee. Ensure field employees and contractors are following safety standards set in the manual



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19. Stay current on all new safety developments within the wireless industry so they can be properly implemented across Vertical Bridge's Operations and Development departments
20. Assure the contractors, tower climbers, etc. who access our tower sites are properly trained, have proper certification, and practice the safety procedures required by the Company and industry accepted practices and certifications such as NATE requirements
21. Document and track any safety issues and verify that vendors do not repeat the same issues on our sites
22. Document any safety issues reported and address with the proper companies / individuals
23. When necessary, represent Vertical Bridge at wireless industry safety seminars
24. Provide input and think creatively on ways to improve vendor safety

### **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.

### **Education and Experience:**

1. Four-year degree with emphasis in civil / structural engineering required
2. Master's degree in Structural Engineering a plus
3. Minimum 4 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 & H, ACI, ASCE – 7
7. Minimum 2 years' experience with safety procedures in the wireless or construction industry
8. Familiarity with NATE safety practices and procedures required
9. Knowledge of OSHA and EPA standards are preferred
10. Demonstrate the ability to multi-task and prioritize efficiently
11. Effective in an entrepreneurial culture, working independently and as part of a team

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