



## Vertical Bridge Job Description

<b>Job Title:</b>	Design Engineer	<b>Date:</b>	2/22/21
<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.

### **Job Functions:**

1. Perform structural analysis on existing tower structures / communication structures to determine their structural capacity.
2. Perform structural analysis / review of existing antenna mounts / antenna supporting structures to determine their capacity.
3. Perform structural calculations on foundations for tower structures / communication structures to determine their capacity
4. Perform seismic calculations on existing tower structures / communication structures to determine is the seismic loading or wind loading governs
5. Design 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.
6. Analyze existing antenna mounts to determine their ability to support the proposed loading
7. Write professional engineering analysis, construction reports and review peer reports. Reports to be used by city, county, and state jurisdictions for permitting.
8. Stay current with the standard changes effecting the tower and communication structures industry and as tenants and clients change and modify their loadings
9. 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
10. Utilize the company's workflow process to communicate engineering analysis results to operations and leasing teams
11. Assist with the tower defect review process during acquisition process of new towers
12. Assist the tower repair and maintenance process on an ongoing basis
13. Provide input and think creatively to help improve efficiency on how the engineering department is performing various tasks
14. Assist other engineers as required

### **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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### **Education and Experience:**

1. Four-year degree with emphasis in civil / structural engineering
2. Two years of experience in the communication tower industry preferred but not mandatory
3. Knowledge in TNX Tower, RISA 3D, Tekla Tedds, AutoCAD, L-Pile and other software a plus but will provide training
4. Knowledge with the various building codes and standards, IBC, TIA Rev G, ACI, ASCE – 7
5. Demonstrate the ability to multi-task and prioritize efficiently
6. Effective in an entrepreneurial culture, working independently and as part of a team

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