



## Vertical Bridge Job Description

<b>Job Title:</b>	Design Engineer III	<b>Date:</b>	11/14/22
<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 tower and mount analyses on existing tower structures / communication structures to determine their structural capacity
2. Review structural tower and mount 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 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. 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. Represent Vertical Bridge on various TIA sub-committees to provide input in the tower industry
10. 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
11. Utilize the company's workflow process to communicate engineering analysis results to operations and leasing teams
12. Assist with the tower defect review process during acquisition process of new towers
13. Assist the tower repair and maintenance process on an ongoing basis
14. Provide input and think creatively to help improve efficiency on how the engineering department is performing various tasks
15. Aid in the training of new engineers in the tower industry, running structural analyses, etc.
16. Execute assigned tasks in Vertical Bridge's workflows assigned to the Engineering Group in order to complete the goal of lease execution

### **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 required
2. Master's degree in Structural Engineering a plus
3. 4-6 years' experience in structural engineering required. Prefer communication tower industry experience
4. Registration as a professional engineer not required, although
5. Knowledge in TNX Tower, RISA 3D, AutoCAD, and Excel are required
6. Knowledge with the various building codes and standards, IBC, TIA Rev H, 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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