



Vertical Bridge Job Description

Job Title:	Engineering Manager	Date:	02/08/22
Department:	Operations	Location:	Boca Raton, FL
Reports To:	Vice President of Structural Engineering	FLSA Status:	Exempt

Purpose:

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

Job Functions:

1. Direct daily tasks for a group of 5-7 engineers in completing structural analyses on existing tower structures / communication structures to determine their structural capacity
2. Perform structural analysis on existing tower structures / communication structures and their foundations to determine their structural capacity
3. Review and approve structural analyses performed by Design Engineers for thoroughness and accuracy
4. Guide engineers on how to analyze existing antenna mounts to determine their ability to support the proposed loading
5. Utilize the company's workflow process to communicate engineering analysis results to operations and leasing teams
6. Aid in the training of new engineers in the tower industry, running structural analyses, etc.
7. Partner with the Vice President of Structural Engineering to implement training documents for new and existing engineers
8. Review foundation calculations performed by Design Engineers for thoroughness and accuracy
9. Perform seismic calculations on existing tower structures / communication structures to determine if the seismic loading or wind loading governs
10. 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
11. Assist in the coordination of managing vendors and their construction timelines for structural tower modifications
12. Review input information provided by the Design Engineers for thoroughness and accuracy
13. Write professional engineering analysis, construction reports and review peer reports. Reports to be used by city, county, and state jurisdictions for permitting
14. Stay current with the standard changes effecting the tower and communication structures industry and as tenants and clients change and modify their loadings
15. Represent Vertical Bridge on various TIA sub-committees to provide input in the tower industry
16. 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
17. Assist with the tower defect review process during acquisition process of new towers
18. Assist the tower repair and maintenance process on an ongoing basis
19. Provide input and think creatively to help improve efficiency on how the engineering department is performing various tasks



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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 (PE) is required. Structural Engineer (SE) License is a plus
5. Knowledge in TNX Tower and RISA 3D software is required. Any additional foundation software knowledge is a plus
6. Knowledge with the various building codes and standards, IBC, TIA Rev G & 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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