

**Title:** Mechanical Engineer  
**Division:** Design, Engineering & Construction (DEC)  
**Reports to:** Director, Design & Engineering  
**Location:** Santa Clara, CA  
**Job Status:** Full-Time

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## About Vantage Data Centers

At Vantage, we run some of the most customizable and scalable data centers in the world, with a meticulous focus on efficiency, operational excellence, reliability, testing, and maintenance. With campuses in Santa Clara CA, Quincy WA and Ashburn VA, we support the most demanding of large enterprises, technology companies and service providers. Vantage Data Centers was founded on the principle that modern-day data center design should evolve in innovative ways that lead to dramatic gains in energy efficiency. Years later, we're still leading that charge. It's through our focus on efficiency, collaboration, and operational expertise that our customers and company continue to excel.

## DEC Department

The Design, Engineering & Construction (DEC) team is responsible for the entire process flow of delivering data centers from conception through commissioning, working with Sales, Operations and management along the way. DEC also works closely with partner contractors to come up with a vertically integrated design and manages these partners to success through technical feedback and review, and actively participating in review of schedule and budget. Many times, a role like this at other companies is purely oversight. One thing that distinguishes Vantage is that our technical staff is given the responsibility and authority to directly drive the process. When compared to external resources, our internal team can align long-term operational sustainability with value engineering and cost metrics to deliver products aligned with corporate goals. This approach empowers each member of the team to drive high- impact decisions and even more impactful results.

## Position Description

Vantage is looking for a Mechanical Engineer to be part of a team that manages the largest individual contributors to operational efficiency within the construction process and become engaged in all technical aspects. In this role, you will be responsible for high-level schematic system design, specification development, submittal review, design document review, management of design-build contractors, oversight of installation, participation in commissioning, and transition to operations. Regular collaboration and coordination is required with electrical and BMS contractors as well as the construction management team. Some client interface is necessary throughout design and construction.

You will provide technical engineering information and assistance to ensure that new datacenter spaces comply with the project requirements, all engineering standards, applicable codes, and specifications. Knowledge of all aspects of mechanical engineering is required, including built up mechanical rooms, packaged equipment, chilled water equipment and piping, DX systems, central utility plants, air side and water side economization, humidity control, raised access floor plenums, and value engineering as they relate to designing state-of-the-art datacenters.

## Essential Job Functions

- Participate in all aspects of mechanical design and engineering including conceptual design, basis of design, scope of work, development of construction documents
- Drive project level tasks and milestones assigned by the project management team
- Create and/or review project plans and specifications

- Subject matter expert responsible for technical reviews including submittals, RFIs and engineering studies/analysis
- Visit job sites for field investigations and coordination meetings

### Duties

- Creation and/or review of the following:
  - Project specifications, schematic drawings, design and construction documents, submittals, sequence of operations, test and balance reports, commissioning scripts
- Attend project design team meetings and interface with various team members
- Review, comment and process project plans and actively participate at various gating approvals
- Participation in on-site job walks and meetings
- Review complete sequence of operations for all designed mechanical systems
- Utilize engineering analysis programs and professional judgment to analyze the following:
  - CFD (computational fluid dynamic) studies
  - Rack layout optimization
  - Psychrometric chart evaluation
  - ASHRAE extreme annual design day temperatures and relative impact to supply air temperatures
- Project coordination and commissioning support
- Review documentation for the mechanical part of the commissioning efforts of each project
- Work with Site Operations to find balance between cost-effective solutions & operational sustainability
- Support Site Operations to troubleshoot /tune existing systems
- Additional duties as assigned from time to time by management

### Job Requirements

- Bachelor of Science in Mechanical Engineering from an accredited university or college
- 4 years of experience in electrical power design and construction required, 7-10 years preferred
- Registration as a US-based Professional Engineer (P.E.) in California strongly preferred
- Data Center experience is strongly preferred
- Proficient in AutoCAD, Excel, Word and Sigma6 modeling software
- Working knowledge of critical cooling infrastructure within a data center
- Working knowledge of all building codes and ordinances, including CBC and ASHRAE
- Travel required is expected to be 5 to 10%, but may increase over time as the business evolves

Candidates should submit resumes to: [jobs@vantagedatacenters.com](mailto:jobs@vantagedatacenters.com). Include the position name in the subject line.