

## **MEP Designer Engineer Job Description**

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**Title:** MEP Design Engineer

**Purpose:** Support Charlotte Engineering Design Department

### **Company Information**

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Since its establishment in 1948, Mechanical Contractors has been serving Charlotte, Raleigh and surrounding areas with design, installation, and service of mechanical systems - over 65 years of expertise. We have over 150 employees and offer full engineering services on HVAC design. MCI continues to evolve into high performance HVAC solutions for the construction industry and has developed significant expertise in energy performance LEED Certification, design build delivery, and renewable energy.

### **Overall Position Description**

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MCI seeks a MEP Design Engineer to provide engineering needs for plan/spec and design/build projects to meet customer's needs. This is a position with growth in skills and knowledge. This person must perform all aspects of project leadership as it relates to engineering services, including technical performance, training, system selection and evaluation, technical software systems, LEED performance, air side and hydronic design, equipment and control applications, and energy modeling, specification writing. The position reports to the Engineering Services Manager and is located in **Charlotte, NC**.

### **Key Job Tasks**

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- Attend and support technical societies
- Attend sales meeting and coordinate engineering needs and priority of customer and MCI resources
- Communicate with service and controls to identify problems and issues, and work to resolve these issues to meet customer requirements.
- Coordinate with other disciplines
- Define system requirements and basis of design for design build work
- Define VE opportunities of existing designs
- Ensure designs meet all applicable codes and safety standards
- Increase MCI brand as a leader in technical solutions
- Provide air and hydronic designs
- Provide authorship of supporting specifications
- Provide commissioning support
- Provide conceptual design build estimates
- Provide concept control sequences
- Provide Fire Protection criteria design
- Provide industrial ventilation designs
- Provide LEED performance, reviews, and submissions
- Provide load calculations and energy predictions
- Provide Plumbing design
- Provide professional responsibility and liability for projects
- Provide project code compliance
- Provide specifications for projects
- Provide support to MCI divisions by providing engineering solutions for any special projects (i.e. Replacements, Solar, Ice storage, new products, etc.)
- Provide technical training opportunities for MCI staff
- Research new technical developments for implementation at MCI

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## **Qualifications**

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### **Required Experience/Education Requirements:**

- 4 year degree in accredited Mechanical Engineering curriculum
- 5 years of experience in HVAC design
- Professional Engineer
- Energy Professional (CEM, CEA, etc.)
- 2 years contacting or project management experience
- Professional knowledge of energy modeling, load calculations, friction loss, gas piping, industrial ventilation, HVAC systems applications, and plumbing, fire protection
- Knowledge of applied psychometrics
- Working knowledge of Revit, AutoCAD, and manufacturers design tools
- Ability to explain technical issues to others
- 2 years of experience in drawing preparation
- 20 hr OSHA Certified
- Knowledge of Building Codes

### **Personal Characteristics and Expectations**

- Ability to provide leadership among other professionals
- Enthusiasm for technical development
- Interacts well with technical staff
- Learning interest for continuing educations in engineering solutions
- Maintains control and leadership in stressful situations
- Motivates others to their full potential

## **Compensation**

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Salary- based on qualifications

Plus performance bonus

Benefits including Medical, Dental, FSA, Life Insurance, Disability, 401K

**Interested in this opportunity?**

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**Contact:**

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