



Electrical Engineer - Graduate

POSITION SUMMARY

The **Electrical Engineer – Graduate** is responsible for applying engineering principals and company values to each engineering project in support of the engineer, providing high value solutions for clients. The graduate engineer's goal is to learn, grow, train, and perform all duties required to grow into a professional engineer. As a true learner and problem solver the graduate engineer should be able to communicate questions and follow directions, complete engineering task requested and report back. The graduate engineer should be able to support the engineer to take jobs from start to finish and have attention to detail to make sure all components of the design are coordinated and communicated in the drawings and specifications. The applicant should be able to complete project management task and meet schedule requirements. Our graduate engineers are always looking for ways to improve.

ABOUT HENDRIX CONSULTING ENGINEERS

Hendrix Consulting Engineers (HCE) is a consulting engineering firm that provides mechanical, electrical, and plumbing engineering as well as energy and commissioning services. HCE is currently registered in the State of Texas (F-4095) and has been in business for over 35 years. HCE has an outstanding reputation in Central Texas and is located in historic Downtown Round Rock on Main Street. Our clients range from public school districts, cities, and counties to private developers.

Our mission is to "create 'buildings of tomorrow', through superior engineering today." Our service level is in high demand, and to bring our value to more clients we are growing. HCE is looking for new team members that align with our mission and culture and want to be part of a cutting-edge team that pushes for success in team members and client's projects to drive business success. HCE's average project manager has tenure of over 25 years and is ready to mentor the next generation to high levels of success. We want our team members to set, work for and reach their personal, professional, and financial goals. Our core values are the backbone of our business and guide our hiring process: we are inspirational, disciplined, intentional, transparent, aligned, and results oriented.

PERFORMANCE OBJECTIVES - GRADUATE

- Align with HCE core values
- Show up to work everyday ready to learn
- Ability to learn ALL software required for job listed below
- Work towards attaining the following "Performance Objective Goals" by following HCE training programs as quickly as possible

PERFORMANCE OBJECTIVES - GOALS

- Apply proven HCE methodology to solving engineering problems
- Organize building into electrical zones based on size, and use
- Evaluate multiple lighting and lighting controls systems and strategies, and communicate pros, cons and value of strategies and systems to owner and architect, and provide recommendations
- Develop complete power and lighting design, appropriate for building type, owner competencies, and works with architecture of building
- Communicate power and lighting system requirements with architect, and other consultants for proper integration into building design
- Review engineering plans for completeness at SD, DD, CD phase of design
- Review, evaluate, and apply building and energy codes and make interpretations for integration with design
- Review and edit specifications for specified scope
- Answer city review comments
- Answer RFIs and questions from contractors during construction, coordinate favorable solutions to issues that arise for owner and design team
- Review contractor submittals for compliance with contract documents
- Ability to review construction progress in field, identify deficiencies, and communicate to contractors for items to be corrected
- Ability to manage multiple projects from design through construction

CAPABILITIES / KEY COMPETENCIES / WORKING KNOWLEDGE - GRADUATE

- Basic understanding of electrical engineering principles
- Working knowledge of physics principles
- Ability to take direction from engineer, apply strategy and follow through
- Working knowledge of geometry
- Ability to visualize objects in 3D and communicate about these objects

CAPABILITIES / KEY COMPETENCIES / WORKING KNOWLEDGE - GOALS

- Working knowledge of Ohms Law
- Working knowledge of calculating power loads and sizing circuits, wire, panelboards for – equipment, lighting, receptacles, kitchens, transformers, etc.
- Working knowledge of fire alarm systems and components
- Working knowledge and understanding of building codes
- Working knowledge of lighting principles and photometric software
- Working knowledge of voltage drop
- Working knowledge of power monitoring
- Working knowledge of glare and how to maximize user comfort visually
- Working knowledge of energy efficiency
- Working knowledge of wire/conduit tables for sizing, and fill capacities
- Select appropriate equipment based on load calculations
- Specify power and lighting equipment with all proper details, options to satisfy job requirements
- Use engineering principles to size select and specify all components: IE: panelboards, transformers, wire, conduit, disconnects, arc flash reduction, power monitoring, and all electrical

NON-ENGINEERING COMPETINCES

- Ability to align with HCE mission, vision, and core values
- Team player – work with others to solve complex problems
- Ability to communicate technical information to non-technical people
- Attention to detail
- Excellent written and verbal communication skills required
- Ability to meet deadlines
- Ability to take direction from engineer and apply
- Ability to find multiple solutions to problems and present options to supervisor

SOFTWARE SKILLS – REVIT - BIM

- Implement engineering solutions in REVIT and AutoCAD BIM software
- Use software to produce engineering documents to communicate solutions
- Coordinate with architects and other engineers inside BIM software
- Review drawings produced with software for accuracy to solutions
- Use online project BIM coordination software to communicate with clients

OTHER SOFTWARE

- Microsoft Office 365 suite of software
- Project management software
- Use photometric software to compare lighting designs for selection of spaces and prepare site photometric plan for city submission
- Willingness and adaptability to learn new software to maximize performance

EDUCATION & EXPERIENCE

- Bachelor or Master of Science in Engineering from accredited University
- Engineer in Training (EIT) work toward passing in first 6-12 months of employment
- Professional Engineer (PE) work toward passing and obtaining license in 4-6 years
- Minimum 0 years in MEP engineering industry

PHYSICAL REQUIREMENTS

- Ability to work on computer at desk
- Ability to walk jobsites
- Ability to drive to jobsites
- Ability to work in office (this is not a remote position)
- Pass background checks required for working in school and government buildings
- Applicants must currently be authorized to work in the U.S. on a full-time basis. We are unable to sponsor or take over sponsorship of employment visas

COMMITMENT TO DIVERSITY

Hendrix Consulting Engineers operates an equal opportunity employer committed to meeting the needs of a multigenerational and multicultural workforce. We hire local talent at all levels based on technical ability and our core values: we are inspirational, disciplined, accountable, transparent, aligned, and results oriented, regardless of race, color, religion, age, national origin, gender, or disability.

If this position caught your eye, send us your resume! For best consideration, include the job title, cover letter and source where you found this position in the subject line of your email to careers@hcengineer.com. Already a Hendrix Consulting Engineers candidate? Please connect directly with your recruiter to discuss this opportunity.

COMMITMENT TO GROWTH

Hendrix Consulting Engineers is in an ever growing and changing market. We are committed to growing our business and team members by innovating, creating, and adopting new strategies, software, and technology to stay on top of our market and deliver best in class solutions and lifestyles.

Job Type – Full Time

Pay: \$50,000 – \$95,000+ total compensation based on experience and performance.

Room for advancement available.

Benefits – Available

- Health Insurance
- Dental Insurance
- Vision Insurance
- Paid Time Off
- Professional Development Assistance
- 401K

Schedule – (typical, options)

- 8 hour shift - Monday to Friday
- 9 hour shift - Monday to Thursday , 4 hour Friday

Supplemental pay types

- Performance bonus pay (5% - 25% typical based on company and individual performance)
- Company 401k contribution

Work location – Round Rock, Texas – in office position