JOB DESCRIPTION

**Job Title:** Traffic Safety Engineer

**Reports To:** Project Manager

**Job Location:** Denver, Colorado

**Job Summary**

The Traffic Safety Engineer, holding either an Engineer-In-Training (EIT) or Professional Engineer (PE) license, will be responsible for developing and implementing traffic safety programs and initiatives to enhance road user safety as part of the Y2K Engineering Team. Projects may include but not limited to safety, traffic engineering design, traffic signal design, roadway lighting design, and traffic studies. A successful candidate will demonstrate expertise in traffic safety principles, traffic engineering, and regulatory compliance.

Responsibilities

* Conduct traffic safety studies and analyze traffic data to identify high-risk areas and develop strategies for reducing accidents and improving safety.
* Evaluate roadway geometrics, traffic control devices, signage, and pavement markings to ensure compliance with applicable standards and guidelines.
* Develop and implement comprehensive traffic safety programs, including road safety audits, traffic calming measures, and pedestrian and bicycle safety initiatives.
* Collaborate with transportation agencies and local authorities to develop and implement effective traffic control plans for construction and special events.
* Review and assess transportation projects to ensure compliance with safety regulations, standards, and policies.
* Conduct field investigations and site visits to assess safety issues and recommend appropriate engineering solutions.
* Prepare technical reports, presentations, and recommendations based on traffic safety analysis and research findings.
* Stay updated on emerging trends, technologies, and best practices in traffic safety engineering.
* Provide technical expertise and guidance to other team members and stakeholders regarding traffic safety concerns and solutions.
* Collaborate with multidisciplinary teams, including engineers, planners, and policymakers, to integrate safety considerations into transportation planning and design processes.

**Qualifications**

* 3+ years of relevant work experience
* Bachelor's degree in Civil Engineering or a related field. Master's degree is a plus.
* Engineer-In-Training (EIT) certification
* Strong knowledge of traffic engineering principles, traffic safety regulations, and relevant industry standards (e.g., MUTCD, AASHTO, FHWA).
* Proficiency in traffic engineering software and tools, such as HCS, VISSIM, and Synchro.
* Experience in conducting traffic safety studies and applying crash analysis techniques.
* Familiarity with traffic control devices, geometric design standards, and transportation planning principles.
* Ability to interpret and apply local, state, and federal regulations related to traffic safety.
* Excellent analytical, problem-solving, and decision-making skills.
* Effective communication skills, both written and verbal, to convey technical information to diverse audiences.
* Strong project management skills and the ability to handle multiple tasks simultaneously.
* Collaborative mindset and the ability to work effectively within a team environment.
* Valid driver's license and willingness to travel to project sites as needed.

**Travel**

* Travel will be on an as-needed basis for client meetings, project site visits or other project tasks.

Note: This job description is intended to convey information essential to understanding the scope of the Traffic Safety Engineer position. It is not intended to be an exhaustive list of qualifications, skills, duties, or responsibilities associated with the role and may be subject to change or modification based on organizational needs.

**US Physical Requirements**

Office Physical Requirements:

All positions in our office require interaction with people and technology while either standing or sitting. In order to best service our customers, internal and external, all team members must be able to communicate face-to-face and on the phone with or without reasonable accommodation. Y2K Engineering is committed to compliance with its obligations under all applicable state and federal laws prohibiting employment discrimination. In keeping with this commitment, it attempts to reasonably accommodate applicants and employees in accordance with the requirements of the disability discrimination laws. It also invites individuals with disabilities to participate in a good faith, interactive process to identify reasonable accommodations that can be made without imposing an undue hardship.

Potential candidates will meet the education and experience requirements provided on the above job description and excel in completing the listed responsibilities for this role. All candidates receiving an offer of employment must successfully complete a background check and any other tests that may be required in accordance with state law.

Equal Opportunity Employer Statement: Y2K Engineering is an Equal Opportunity Employer that values and respects the importance of a diverse and inclusive workforce committed to leveraging diverse backgrounds, perspective and experiences that create opportunities for our colleagues and our business. It is the policy of the company to recruit, hire, train and promote persons in all job titles without regard to protected category.