



JOB DESCRIPTION

POSITION TITLE: Design Engineer with Bus Transit Focus **FLSA STATUS:** Exempt

DEPARTMENT: Design

OFFICE: Boston, MA

DATE REVISED: August 15, 2019

SUPERVISOR: Project Manager

POSITION SUMMARY:

We are seeking a bus transit savvy design professional to complement our team of multimodal planners and engineers, committed to improving communities through transportation and community design. McMahon Associates is comprised of progressive transportation planners and engineers who are passionate about multimodal transportation including public transportation vehicles and riders; bicyclists; pedestrians of all ages and abilities; and vehicular safety.

Due to growth, we are looking for an urban-focused transportation planner-engineer to expand our unique bus infrastructure practice. The ideal candidate will have experience in applying planning and engineering best practices to develop solutions that improve bus transit and the rider experience within a Complete Streets context.

The Project Engineer provides engineering services on all phases of an assigned project under supervision.

PRIMARY DUTIES:

- Use computer assisted engineering and design software and equipment to prepare engineering and design documents as necessary
- Complete engineering analyses, alternatives analysis, and designs with supervision
- Conduct field work to support planning and design
- Evaluate, select and adapt standard techniques, procedures and criteria to complete work on projects
- Assist in the preparation or modification of reports, specifications, construction schedules, environmental impact studies, permits and designs for projects
- Draft transmittals, memos, meeting minutes
- Interpret guidelines, procedures and manuals
- Assist in client contact and communication pertaining to specific projects as necessary
- Assist in public meetings/public and stakeholder engagement activities
- Provide technical support and guidance to Staff Engineers and Co-ops on an as needed basis
- Prepare and sit for P.E. Exam
- Assist in preparation of proposals
- Be aware of budget hours vs. time to complete tasks

KNOWLEDGE, SKILLS AND ABILITIES:

- Proficient knowledge of computer aided software
- Strong oral and written communication skills

- Ability to define problems, collect data, establish facts and draw valid conclusions
- Strong organizational skills and attention to detail
- Knowledge of Federal and State ADA Standards and Guidelines
- Knowledge of *NACTO Transit Street Design Guide* and *AASHTO Guide for Geometric Design of Transit Facilities on Highways and Streets*, as well as transit agency bus stop design guidelines (such as MBTA and RIPTA). Knowledge of *NACTO Urban Bikeway Design Guide*, as DOT bike facility design guidelines would be a plus.
- Familiarity with integration of bus transit with other modes (auto, bicycle, pedestrians) on streets
- Familiarity with bus priority measures
- Familiarity with DOT policy and practices preferred

EDUCATION/EXPERIENCE:

- Bachelor's Degree in Civil Engineering, Transportation Engineering or equivalent from an accredited four-year college or university
- 4+ years of work experience in transportation engineering
- Active participation in a professional society/organization

CERTIFICATIONS/LICENSES REQUIRED:

- EIT required

SUPERVISORY RESPONSIBILITY

This position has [no] immediate supervisory responsibilities.

PHYSICAL DEMANDS AND WORKING ENVIRONMENT:

While performing the duties of this job, the employee occasionally works in the field and may be exposed to outside weather conditions. Work required frequent and prolonged computer use. Occasional lifting up to 25 pounds.

ENVIRONMENTAL HAZARDS:

This position may risk exposure to bright/dim light, noise, fumes, odors, and traffic/transit vehicles.

AAP/EEO STATEMENT:

This company is an Equal Opportunity Employer. We invite resumes from all qualified, interested parties, regardless of race, color, creed, religion, gender, gender identity, national origin, sexual orientation, disability, age, or any other protected classification under federal, state or local law.

Qualified candidates should fill out an application at

<http://www.mcmahonassociates.com/careers>. Applicants may also send their resume to lhales@mcmahonassociates.com.

