

Title	Traffic Engineering Senior Specialist
Vacancy Number	MoPW/SRTAP /1400-80
Ministry	Ministry of Public Works
Organization	SRTAP
Project	Sustainable Reform & Technical Assistance Project
Duty Station	Kabul
Duration	1 year (with the possibility of extension)
No of Jobs	1
Nationality	Afghan
Sex	Male/Female
Salary Range	NTA Salary Scale (Grade-B)
Announcing Date	27 May 2021
Closing Date	08 June 2021
Job Type	Engineering
Shift	Full Time (chances of homebased or part time contract is also available, based on negotiation)
Job Status	Sourcing
Experience	Specific 5 years, General 7 years

Background:

The Ministry of Public Works (MoPW) is responsible for the planning, design, procurement, implementation, monitoring, and maintenance of the various transportation infrastructure projects such as roads, bridges, and its relevant drainage and retaining/protection structures in the government of the Islamic Republic of Afghanistan.

The Directorate of Survey and Design is a technical survey (Feasibility study, topographical survey, Geotechnical Investigation, Hydrology and hydrologic design,) and design (Geometric Design, pavement design, and structural design and bridge design) of all roads and bridges projects as per national and international standards. The survey and design process are required to complete as per approved and standard computer programs.

The survey and design directorate of MoPW is responsible to prepare standard drawings as per mentioned standards and approved programs applicable at construction site. The ministry is recruiting data collectors to carry out pavement and roadway structures' design and technical surveys of the various Road Network and of rural roads throughout Afghanistan.

Scope of Work/Job Summary:

The MoPW is actively seeking an engineering professional with a proven background in traffic engineering, and functions as a member of the team for developing the Design Criteria. The incumbent

will work under the direct supervision, guidance, and direction of the International SME and leadership of the Team Leader/ Project Manager. The position should utilize their qualifications and experience in Traffic Design and Management to work as a member of expert engineers in developing a comprehensive and well-compiled set of design criteria for road projects in Afghanistan that is aligned with both the country's needs and the regional/international standards. The ideal candidate must perform an advanced level of traffic engineering studies and should demonstrate high-level skills in signal system designing, monitoring, and control, traffic modeling, data collection, design of complex ramps, interchanges and intersections, illumination, and also ensure the standards for safe and efficient traffic operations are incorporated in the newly developed design criteria and thereby ensure effective highway operations and improved safety.

The potential candidate will remain active through all project phases and should work in close coordination with the senior management in the MoPW. He/ She must directly report to the Team Leader/ Project Manager of the team.

Duties & Responsibilities:

The selected Traffic Engineering Senior Specialist will focus on the development of Design Criteria whose duties and responsibilities will include but not be limited to:

- Provide technical assistance in all relevant areas of traffic engineering, including planning, design, management, operation, and monitoring when compiling the design criteria;
- Demonstrate a comprehensive knowledge of the country's road network and routes, capacity, volume, and other traffic conditions;
- Conduct advanced level of traffic engineering studies and revise traffic-related existing standards, regional special provisions, and standard plans;
- Conduct site surveys, field investigations, and feasibility studies for data collection and criteria development, if deemed necessary;
- Perform needs assessments and discover problems in current practices through field studies and regular meetings with provincial engineers and stakeholders;
- Evaluate the history of traffic accident cases and make proper recommendations to avoid accidents;
- Gather and interpret data and present reports to the design criteria team on traffic issues such as speeding, volume, circulation patterns, roadway capacity, accidents, parking requirements, and projected traffic lanes needed;
- Develop and incorporate traffic safety and operations policies and procedures in the design criteria;
- Evaluate and compare the proposed procedures to be incorporated in the design criteria for traffic management and operations;
- Ensure the inclusion of all phases of traffic engineering within the newly developed design criteria; i.e., from concept through construction;
- Ensure the adherence of new design criteria with internationally recognized design standards and with the consideration of local conditions and regional/international standards;
- Ensure the criteria is equipped with the safety standards and guidelines for placing road furniture, traffic signage, signals, markings, etc.;
- Provide necessary technical expertise to the team relating to traffic engineering for both urban and rural roadway projects;
- Plan and coordinate the activities for the development of design criteria to ensure compliance to procedures and regulations as required by the MoPW;
- Develop specific design criteria/procedures for establishing traffic design parameters for highway projects;
- Assist the team in disseminating and publishing the finalized design criteria draft;
- Successfully interface with experts from a range of other disciplines (civil, design, surveying, planning, geotechnical, etc.) to compile a comprehensive set of design criteria;
- Develop solutions to a wide range of difficult technical issues concerning traffic engineering and propose effective approaches and solutions;

- Complete all work in conformance with the MoPW policies, guidelines, and core values;
- Develop and maintain effective working relationships with seniors and the design criteria team and provide the necessary advice and support to the team;
- Assist the Project Manager in reviewing/preparing the progress reports (weekly, monthly, quarterly);
- Convene and attend technical meetings with stakeholders and team members on regular basis;
- Assist the team in drafting the criteria and oversee the writing quality;
- Ensure that the language used in draft design criteria is clear, simple, and focused; and
- Perform other tasks related to developing design criteria required/assigned by the senior management.

Skills & Competencies:

- Demonstrate in-depth knowledge of current design practices in the areas of illumination design, traffic signal design, other traffic control devices, interchange/intersection modeling, simulation, etc.;
- Must be familiar with regional best practices in the field of traffic engineering;
- Able to prepare/ analyze traffic studies, traffic models, geometric plans, traffic signal plans, and road construction plans and specifications;
- Able to draft and develop specifications/ guidelines and write clear, concise, and accurate technical/ non-technical reports;
- Acquaintance with regional and international traffic standards and knowledge of relevant AASHTO and Indian Road Congress / MoRTH guidelines;
- Conversant with a traffic simulation software, CIVIL3D, AutoCAD, and MS Office;
- Knowledge of Rapid Bus Transport (RBT) and Intelligent Transportation System (ITS) is desirable;
- Highly motivated and enthusiastic team player with a strong desire to succeed;
- Able to manage conflicting priorities; and
- Demonstrate leadership in handling and working with multidisciplinary teams.

Job Requirements:

- A bachelor's degree holder in Civil engineering or a master's in Transportation Engineering (preferred) with specialization in traffic management, design, and optimization of pedestrian and traffic safety;
- Knowledge of traffic simulation software and/or Transport Demand Modelling (Transport-related software i.e., VISSIM, VISUM, Cube) would be a plus;
- Have at least 8 years of experience focused on highway capacity, facilities design, traffic operations, systems analysis, network modeling, travel behavior, demand forecasting, and planning for safe and effective traffic flow, ESAL analysis, etc.;
- Having 2 years of experience in preparing technical documents and developing standard manuals is highly preferable;
- be fully familiar with the currently practiced traffic standards and proposed criteria for roadways in Afghanistan and have the knowledge of methodology concerning design criteria development;
- Must have completed several high-profile transportation projects in well-renowned organizations;
- Must demonstrate robust technical writing and English communication skills;
- Proven organizational and problem-solving skills;
- Able to travel to the remote area all over Afghanistan, collect required data and work as part of a team;
- Perform any other job-related duties and tasks as assigned by senior management.

Required Documents:

- CV with a cover letter for the relevant position;
- Copy of verified Degree by the Ministry of Higher Education;

- Copy of verified Afghan ID Card (Tazkera) or Passport;
- Copy of verified last Posting Contract; and
- Copy of other relevant documents that support the application.

Submission Guideline:

Interested candidates are requested to forward their applications; detailed CV and other required documents **hr.mopw@yahoo.com** indicate the vacancy number (**MoPW/SRTAP /1400-80**) and the post title (**Traffic Engineering Senior Specialist**) in the subject line when applying by email to the Human Resource Unit – Sustainable Reform and Technical Assistance Project of Ministry of Public Works (MoPW) at Kabul, Afghanistan.

Address: SRTAP Office, Railway Building, Kabul-Jalalabad Rd., opposite KMTC, MoPW, Kabul, Afghanistan.

Note: Only short-listed candidates will be contacted.