

Title	HVAC Design Engineer
Vacancy Number	MoPW/SRTAP/1400-117
Ministry	Ministry of Public Works
Organization	Administrative & Service Directorate
Project	Sustainable Reform & Technical Assistance Project
Duty Station	Kabul
Duration	1 year
No of Jobs	1
Nationality	Afghan
Sex	Male/Female
Salary Range	NTA Salary Scale (Grade C)
Announcing Date	10/07/2021
Closing Date	17/07/2021
Job Type	Engineering
Shift	Full Time
Job Status	
Experience	5 years of relevant experience, 10 years general experience

### **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.

### **Scope of Work/Job Summary:**

The MoPW is seeking to engage a *HVAC Design Engineer* with proven relevant experience. The incumbent must utilize his/her experience in estimating and designing HVAC and central cooling and heating system for a range of residential and commercial buildings..

### **Duties & Responsibilities:**

The selected candidate will be responsible to perform the following tasks:

- Design HVAC systems and create heating and cooling systems and their controls;
- Estimate heating and cooling needs for space sizes by making load calculations;
- Calculations of thermal loads and cooling loads using computing software;
- Read and interpret construction plans, schematics, and blueprints for new construction projects;
- Draft new plans to design ductwork and piping systems;

- Design and layout of commercial and industrial duct systems including supply, return, exhaust, ventilation, and dust collection systems;
- Calculate ventilation requirements based on the types of systems needed;
- Determine costs for heating and cooling systems and write up detailed budget estimates;
- Coordinate and collaborate with architect and engineers when designing heating and cooling systems;
- Must adhere to all building codes;
- Project shop drawing and submittal review;
- Assist in sound implementation of HVAC system installations by conducting site visits through assessing, evaluating, monitoring and reporting of HVAC Systems and installation processes during construction;
- Application and selection of various types of HVAC equipment including air handling units, fans, coils, condensing units, and furnaces;
- Application and selection of air terminal devices such as variable air volume boxes, grilles and diffusers, and louvers;
- Design, application, and selection of hydronic systems and steam/condensate systems including chillers, boilers, cooling towers, pumps, and associated system accessories;
- General knowledge of HVAC system controls desirable which includes development of general HVAC temperature control diagrams and written sequences of operation;
- General knowledge of plumbing design would be beneficial but not required which may include general knowledge of the plumbing code and specific requirements for sanitary sewer and vent piping design, storm sewer piping design, and domestic hot and cold-water piping design;
- Development of Mechanical designs and documents into the design package of the project based on requirements and application in coordination with other disciplines (structural, architectural, electrical and Mechanical), directing drafting personnel, and checking project Mechanical designs, drawing and documents;
- Provide specific equipment and materials specifications and incorporate them into the technical specification of Projects;
- Coordinate and interact with other departments regarding HVAC Systems of projects;
- Develop and introduce methods, manuals, tools, guidelines, standards and processes for production of effective management of HVAC systems; and
- Perform other functions related to the job either required or assigned by the senior management.

### **Skills & Competencies:**

- Able to design complicated heating and cooling systems by using mechanical abilities and skills;
- Able to work with heating and cooling tools (pumps, fans, pipes, motors);
- Able to perform numerous calculations essential for this job;
- Use analytical skills to determine how much heating and cooling power is needed for a specific space, then turn these estimates into design concepts;
- Hands-on experience of using HAP, WRIGHTSOFT, or HVAC solution programs for load calculations;
- Familiar with local, regional, and international standards;
- Technology Awareness – Good computer skills using MS Office, AutoCAD, and Internet;
- 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 team.

### **Job Requirements:**

- A bachelor's degree holder in HVAC technology, mechanical engineering, or Civil engineering;
- Preference will be given to candidates with Masters or a higher degree in the related field;
- Professional familiarity with the estimation, design, and implementation of HVAC systems is highly desirable;
- Have at least 10 years of general experience with a proven track record in the management of HVAC systems;

- Having 5 years of job-related experience is highly preferable;
- Must be familiar with creating and developing refrigeration and heating systems for commercial and residential properties;
- Must have remained a part of several high-profile construction projects in high-profile companies/ 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 and work as part of a team;
- Perform any other job-related duties and tasks as assigned by the 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 and other required documents in PDF format indicating the position (**HVAC Design Engineer – MoPW/SRTAP/1400-117**) applied for in the subject of the email to the HR of the SRTAP/MoPW through email at [jobs.mopw1400@yahoo.com](mailto:jobs.mopw1400@yahoo.com) Without mentioning the position title/vacancy number, the application may not be considered valid. Applications received after 17/07/2021, will not be shortlisted for written test/Interview.

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

Note: Only short-listed candidates will be contacted.

Submission Email: [jobs.mopw1400@yahoo.com](mailto:jobs.mopw1400@yahoo.com)