



DEPARTMENT OF HUMAN RESOURCES

POSITION DESCRIPTION

CLASS TITLE: <i>FIRE ENGINEER</i>	CLASS CODE: <i>FR07</i>
DEPARTMENT: Fire & Rescue Services	PAY GRADE: 16
REPORTS TO: Fire Captain	FLSA: Non-Exempt
SUPERVISES: N/A	REVISED: 05/03/2018

PURPOSE AND SCOPE:

Under the direct supervision of the Fire Captain, maintains readiness and performs basic and advanced duties related to the operation of firefighting/emergency responses involving all vehicles used by the Fire Department. Performs maintenance and cleaning duties of the fire station and fire apparatus. Performs fire prevention, training activities, and community service activities as required. Assists in training new Firefighters and assists with training of Firefighters who wish to become apparatus drivers.

This position is designated as Essential in the event JIPSD's Emergency Operation Plan is activated, and for all natural or manmade disasters.

ESSENTIAL FUNCTIONS:

% Time (Total of Essential Functions Must Equal 100%)

- 30% Drives and effectively operates ALL vehicles within the Fire Department Fleet. Operates pumps, aerial device, and other equipment carried on Fire Department apparatus. Performs and oversees proper vehicle/equipment checks for all vehicles assigned to the Fire Station. Performs required inventories of the equipment carried on those vehicles. Performs and/or assists with annual tests of fire pumps and fire hose.
- 25% Maintains assigned or other Fire Department apparatus in good working order. Performs routine repair and maintenance of all apparatus/equipment, which includes checking engine lubricants, transmission fluids, or other fluids necessary for safe operation of apparatus/equipment. Checks tire pressure, safety equipment (seat belts, apparatus lighting, etc.) and proper pump operating pressure. Lubricates aerial device, valves, and performs other preventative maintenance under the direction of the Fleet Services Department. Actively participates in preventative maintenance, annual or otherwise, with the Fleet Services Department. Submits repair requests, through the chain of command, to the Fleet Services Department.
- 20% Responds to requests for service which may be either emergency or non-emergency. Provides emergency medical/first responder service. Assists in the suppression of fires, and removes victims from burning structures and vehicles, under the direction of the Fire Station Captain. Ensures all equipment used has been cleaned and returned to the apparatus prior to leaving the scene or prior to readying the apparatus for service.

15% Participates in regular formal and informal training, in an individual or group setting, as required. Acts as a mentor for Firefighters who wish to become drivers and assists them with their training.

10% Actively participates in the inspection of commercial occupancies within the service area under the supervision of the Fire Captain.

100% = Total Essential Functions

MARGINAL DUTIES

- Performs simple maintenance on firefighting vehicles;
- Maintains cleanliness of Fire Stations, grounds, and training areas;
- Cleans and maintains firefighting equipment. Maintains cleanliness of uniforms and issued personal protective equipment (PPE).
- May escort tour groups that visit the fire station or otherwise lead fire prevention functions;
- Monitors fire ground operations and assists the Incident Commander as needed.
- Performs other duties as required/assigned.

EQUIPMENT

Machinery/equipment used to perform Engineer functions, i.e., fire engine, pumper, ladder truck, all other firefighting vehicles, personal protective equipment, SCBA, firefighting hose, hose nozzles, smoke ejector, gas powered tools and fans, gas/diesel powered generators and tools, axes, pry bars, ladders of varying lengths, pike poles, shovels, chisels, crow bars, saws, hydrants, electronic monitoring equipment, handheld and mobile radios, emergency medical equipment. AED, extrication tools, firefighting apparatus, telephone, computers, printers, training materials, maps, and many other equipment or supplies necessary for emergency situations.

WORKING CONDITIONS

Working inside and outside in extreme/varying weather conditions. Subject to extreme heat or temperature sufficiently high to cause marked bodily discomfort. Subject to temperature changes-variations in temperature which accompany extreme heat and are sufficiently marked and abrupt to cause bodily reactions. Subject to wet and humid conditions, contact with water or other liquids and atmospheric conditions with moisture content sufficiently high to cause bodily discomfort. One or more of the following conditions may affect the respiratory system or the skin: FUMES, ODORS, DUSTS, MISTS, GASSES, OR POOR VENTILATION. Subject to high levels of noise and vibration either constant or intermittent. Subject to placement in mentally stressful situations such as working in confined spaces, storm sewers or working in high places, such as on ladders, driving a vehicle in heavy traffic or adverse weather conditions.

PHYSICAL DEMANDS CATEGORY:

VERY HEAVY. Defined in the Dictionary of Occupational Titles as jobs requiring occasional lifting over 100 lbs., frequent lifts over 50 lbs., constant lifts over 20 lbs., and a MET level over 7.5.

PHYSICAL JOB DEMANDS:

IMPORTANT: All JIPSD Fire Protection associates and candidates for JIPSD Fire Protection job offers must, on an annual basis, be able to successfully complete and pass JIPSD's Job-Related Physical Agility Test (JRPAT). All offers for JIPSD Fire Protection positions are contingent upon, (among other pre-employment requirements), the successful completion and passing of JIPSD's JRPAT.

	Not Required	Infrequent	Occasional	Frequent	Constant
		<i>Not on Daily basis</i>	<i>0-33% of shift, 1-100 repetitions</i>	<i>33-66% of shift, 100-500 repetitions</i>	<i>67-100% of shift, 500+ repetitions</i>
Standing				X	
Walking				X	
Lifting			75 – 150#		
Carrying			75 – 150#		
Push/Pull		175#	75#		
Climbing			X		
Balancing			X		
Bending			X		
Kneeling			X		
Crawling			X		
Reaching			X		
Handling				X	
Squatting			X		
Sitting			X		

KNOWLEDGE, SKILLS, AND ABILITIES:

- Ability to abide by JIPSD's Code of Conduct & Behavioral Standards.
- Ability to understand and carry out complex oral and written instructions.
- Ability to perform well under stressful situations.
- Ability to perform difficult tasks requiring strenuous physical exertion and to exert in excess of 100 # of force.
- Ability establish and maintain effective working relationships with colleagues, superiors, other JIPSD departments and associates, JIPSD Commissioners, and the public.
- Ability to work fire shifts, overtime, and acting duty, as assigned.
- Knowledge of basic techniques of fire suppression.
- Knowledge and use of self-contained breathing apparatus (SCBA) and personal protective equipment (PPE).
- Skilled in operation of firefighting, extrication, and fire prevention equipment.

- Knowledge of rescue and emergency medical techniques.
- Ability to effectively communicate by 2-way radio.
- Ability to successfully complete and maintain certification and training requirements for this job title.
- Knowledge of streets and geography of James Island.
- Effective calculation of friction loss
- Basic knowledge of building construction
- Knowledge of basic inspection practices
- Ability to rescue a downed or trapped firefighter
- Ability to perform advanced firefighting techniques and support operations
- Basic mechanical skills
- Ability to operate all pumps, aerial devices, and equipment within the Fire Department's fleet.

MINIMUM EDUCATION, TRAINING, AND EXPERIENCE REQUIREMENTS:

- Must be at least 18 years of age;
- Must have a High School Diploma or GED plus one (1) year career or two (2) years volunteer firefighting experience;
- Must possess a valid SC driver's license (or ability to obtain one prior to appointment);
- Must possess all the following NFPA certification requirements (SCFA or out-of-state equivalents) prior to appointment to this job title:
 - **First Responder OR EMT/Basic Certification (Preferred);**
 - **CPR;**
 - **NFPA 472 HAZMAT Operations Level (Chapters 4 and 5);**
 - **NFPA 1001 Firefighter II Level (Chapters 4, 5, & 6)**
 - **NFPA 1002 Driving/Operating Vehicles (Chapters 4, 5 & 6)**
 - **NFPA 1006 Rope Rescue Level I (Chapter 6)**
 - **NFPA 1407 Rapid Intervention Crew/Team and Rescuing the Rescuer**
 - **NFPA 1561 Incident Management Systems**
 - **NIMS 100, 200, 700 and 800**

All internal and/or external candidates for a vacancy in this job classification who have successfully moved to the testing phase of the selection process must take and achieve a passing score of 70% or greater on the written Fire Instructor Testing (FITS) program for Fire Engineers and on the in-house practical exam for Fire Engineers, as scheduled and administered by the JIPSD Fire Department, in order to successfully move forward to the next phase of the selection process. All candidates will be given access to materials required for successful completion of the exam(s).

Position incumbents must possess all the following specific certifications and successfully complete all of the other specified requirements within eighteen (18) months of appointment to this position title. Failure to do so will result in termination of employment:

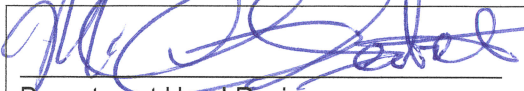
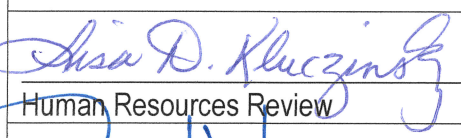
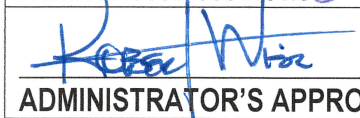
- IFSAC Pumper and Aerial Operator
- Successful Completion of all JIPSD Fire Engineer Position Manual Competencies.

NOTES:

The listing of the essential functions in this class specification is representative, not exhaustive. It is not necessarily a detailed description of all work responsibilities, and it does not give exclusive title to every

function described. The indicated percentages of time are intended to be a meaningful representation but may vary. Job performance must conform to all JIPSD policies/procedures and applicable SOGs. All associates entering this position title on or after the revised date above will be required to possess the position requirements as specified on this document. This is not a contract of employment and should not be relied upon as such.

MANAGEMENT REVIEW/APPROVAL SIGNATURES:

 Department Head Review	<u>5-3-2018</u> Date
 Human Resources Review	<u>5-3-18</u> Date
 ADMINISTRATOR'S APPROVAL	<u>5/3/18</u> DATE

I certify that I have received a copy of this Position Description:

Associate's Name – Please Print Legibly

Associate's Signature

Date

*James Island Public Service District is an Equal Opportunity Employer and Provider, an At-Will Employer, and a Drug-Free Workplace.
We Participate in E-Verify.*