

Rescue Fire Protection District



Engineer Paramedic

\$5639 - \$6,478 monthly

Engineer EMT

\$5,321 - \$6,160 monthly

DEFINITION

Under general supervision, a Fire Engineer drives and operates fire apparatus and fire-fighting equipment in a safe manner in order to respond to emergency calls; maintains and repairs fire apparatus, equipment, and stations; and participates in fire suppression and rescue and medical aid activities to protect life and property.

CHARACTERISTICS

The class of Fire Engineer is distinguished from the class of Firefighter by the assignment of more responsible and varied duties which require knowledge and experience in driving motorized fire fighting vehicles and operating the related pumping, hydraulic and other specialized fire equipment.

DUTIES AND RESPONSIBILITIES

Note: The following duties are intended only as illustrations of the various types of work that may be performed. The omission of a specific statement on duties does not exclude them from the

position if the work is similar, related or a logical assignment to the position. Each individual in the classification does not necessarily perform all the duties listed. Employees may perform other related duties at an equivalent level as required. Management reserves the right to add, modify, change, or rescind the work assignments of different positions and to make reasonable accommodations so that qualified employees can perform the essential functions of the job.

Duties may include, but are not limited to, the following:

- Using defensive driving techniques, drives and maneuvers a variety of fire department apparatus, including aerial and wildland fire apparatus in areas with restricted horizontal and vertical clearance, around obstructions, and over terrain; without striking objects. Positions apparatus for correct device deployment.
- Operates all fixed systems and equipment on department vehicles so that each system or piece of equipment is operated in accordance with applicable instructions and policies.
- Operates pumping equipment and other apparatus and troubleshoots pump problems during pumping operations to ensure adequate water or extinguishing agent flow and pressure for suppression activities. Identifies and operates appropriate nozzle for effective water stream.
- Uses aerial apparatus to provide elevated fire streams, fire suppression and operational support, and/or rescue.
- Completes mathematical calculations to determine pressure requirements, friction loss, ladder loads, net pump discharge pressure for operations using various hose layouts, etc.
- Cleans, inspects, and maintains all fire apparatus and systems, equipment, and tools; including nozzles, pumping apparatus, pumping systems, foam systems, aerial devices and their components.
- Performs routine servicing functions on department vehicle components and systems (e.g. battery, braking, coolant, electrical, fuel, hydraulic, oil, steering, belts, and tires).
- Participates in a wide variety of emergency and rescue activities, including emergency medical services, the extrication of patients from vehicles or confined spaces, primary and secondary search procedures for fire victims, above or below ground rescues, and hazardous material incidents, using appropriate tools and equipment.
- Creates ventilation openings by opening or forcing doors and windows and by cutting or breaking walls and roofs using minimum necessary force.
- Secures incident site by directing traffic and clearing bystanders from the incident scene.
- Wears appropriate personal protective equipment according to medical protocols to protect against infectious disease.
- Utilizes self-contained breathing apparatus (SCBA) to protect from smoke inhalation and toxic fumes while fighting fires or when entering any IDLH atmosphere.
- Operates various tools (e.g., axe, pry tools, saws, shovels) for overhaul at emergency scene and wildland firefighting.
- Operates two-way radio to communicate with dispatcher and/or fireground.
- Participates in drills and other training activities to ensure knowledge of required and expected actions, tools, and equipment.
- Speaks to public groups and conducts fire prevention and education programs.
- Provides instruction/training to Department employees on the driving, maneuvering, and placement of Department vehicles/apparatus.
- May serve as an acting officer in the absence of a Captain.
- Performs other related work as required.

EMPLOYMENT STANDARDS

Knowledge of:

Operational limits of department vehicles; defensive driving techniques; procedures for safely negotiating intersections, railroad crossings, and bridges; safety precautions for operations near electrical hazards and overhead obstructions; the effects on vehicle control of vehicle weight, load factors, center of gravity, liquid surge, and vehicle speed; effects of topography, ground, and weather conditions on deployment of aerial apparatus, as well as, agent application, distribution rates, and density; principles of positioning and stabilizing the aerial apparatus; principles and practices for conducting ventilation, elevated master stream, and rescue operations with aerial apparatus; aerial apparatus systems (e.g. electrical, cable, locking, safety), gauges and controls and relevant safety procedures; capabilities and limitations of aerial devices related to reach, tip load, angle of inclination, and angle from chassis axis; accessible water supply sources; foam types, proportion rates, system limitations, and manufacturer's specifications; the types and operating principles of pumps and nozzles used in the fire service and their advantages and disadvantages; mechanics and construction of pumping equipment; operating principles of sprinkler systems; principles of friction and friction loss as they pertain to the flow of water; recommended flow rates and operating pressures for various nozzles, handlines, and master stream devices; pressure types (e.g. static, flow, residual, head); relevant mathematical formulas (e.g. determining elevation pressure loss or gain, determining net pump discharge pressure, total friction loss); hose layout (e.g. forward, reverse); streets and jurisdictional borders of the Rescue Fire Department and vehicle patterns; major target hazards within the borders of Rescue Fire Department; training/instruction procedures and techniques; fire suppression principles, procedures, methods, and equipment; basic building construction; basic chemistry of combustion and characteristics of fire behavior; firefighting tactics and strategy; proper techniques of forcible entry; search procedures; ventilation techniques, procedures, and equipment; rescue methods and procedures, including extrication procedures; basic life support and first aid procedures; procedures for evaluating and treating various medical emergencies.

Ability to:

Drive fire apparatus safely in emergency and non-emergency situations under varying road, terrain, traffic and weather conditions; stabilize and maneuver apparatus into the correct position; operate the aerial device on fire apparatus; safely conduct pumping operations, including dual, relay, and tandem operations; prime and operate single-stage and multi-stage fire pumps; assemble hose lines, nozzles, valves, and appliances; supply water to hand lines, master stream devices, fire sprinkler and standpipe systems at the correct volume and pressure; connect and operate water transfer equipment from a hydrant and an onboard water tank; transition between internal and external water sources; select the appropriate mathematical formulas and make a variety of simple and complex mathematical calculations, including field calculations (e.g. net pump discharge, square roots and exponents, cubic feet); accurately read gauges and instrumentation; perform routine maintenance on and troubleshoot and correct problems with tools, equipment, apparatus, and mechanical systems; effectively provide instruction and training on the driving, maneuvering, and placement of fire department vehicles/apparatus; identify and analyze potential hazards and take appropriate action; use SCBA and protective clothing to prevent exposure to hazardous materials and infectious diseases; use a variety of tools and equipment, including hydraulic powered and pneumatic tools, for rescue operations; provide emergency medical services; accurately document maintenance activities in accordance with departmental policy and procedure; establish and maintain effective working relationships with those contacted in the course of work; understand and follow written and verbal instructions; speak clearly and give directions to others; write clear, concise, and accurate reports.

SUPPLEMENTAL INFORMATION

Any equivalent combination of training and experience which provides the required skills, knowledge, and abilities may be considered qualifying at the sole discretion of the district. A typical way to obtain the knowledge and skills would be:

Education must be obtained through a post-secondary institution currently accredited by any accreditation body recognized by either the Counsel for Higher Education Accreditation (CHEA) or the United States Department of Education.

Education and Experience:

- Possess a high school diploma, G.E.D. equivalency, or a high school proficiency certificate.
- Completion of the Department's Engineer's Task Book within one (1) year of employment
- Completion of California State Driver Operator 1A and 1B
- Two (2) years of full-time career experience as a firefighter. Note: three (3) years of consecutive volunteer time (in good standing) shall count as one year of full-time career experience.
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Licenses, Certificates, Special Requirements:

- Must be at least eighteen (18) years of age.
- A valid (unrestricted) California Driver's License, Class C with appropriate Firefighter Endorsement is required prior to appointment to the position of Engineer/EMT or Engineer/Paramedic. Or a valid (unrestricted) California Commercial Class A or B Driver's license with air brake and tank endorsement.
- California State Firefighter I Certificate or equivalent.
- EMT-P (Engineer/Paramedic) Certification/Licensure or EMT (Engineer EMT) Certification/Licensure. El dorado County accreditation required within 60 days of appointment.
- American Heart Association CPR (Healthcare), ACLS, and PALS (PEPP) Certification.
- Candidate Cal-JAC Physical Ability Test (CPAT) certification achieved within the last twelve (12) months or successful completion of Department internal Physical Ability Test.

Desirable:

- Firefighter II Certificate or equivalent.
- Possession of a valid California or National Registry Emergency Medical Technician – Paramedic (EMT-P) license. *If hired as an Engineer EMT, it will be required to be certified Paramedic and El Dorado County accredited within two (2) years.*
- Community and/or Public Service Experience.
- Bilingual Ability.

PHYSICAL CHARACTERISTICS

The physical demands described here are representative of those that must be met by employees to successfully perform the essential functions of this classification. Reasonable accommodation may be made to enable individuals with disabilities to perform the essential functions.

Speaking/Hearing: Sufficient clarity of speech and hearing, with or without reasonable accommodation, to enable the employee to effectively express ideas and receive detailed information through oral communication several times a day.

Vision: daily perform work that requires the ability to see distances under 12 inches and over 20 feet away; daily use both eyes and distinguish basic colors and shades of colors; daily use depth perception.

Manual Dexterity: daily use finger dexterity (pick, pinch, type or otherwise work with fingers) and grasp objects; frequently feel to perceive attributes of objects such as size, shape, temperature, texture by touching. Repetitively use hands daily.

Strength and Mobility: physical capacity to lift and move equipment and objects weighing up to 200 pounds; physical capacity to lift, carry, or drag weight equal to and in addition to one's own body weight while ascending/descending stairs; physical capacity to push or pull object of up to 300 pounds. Daily stand, walk, sit, stoop, kneel, and crouch; daily maintain balance when walking, standing, or crouching on narrow or slippery surfaces.

ENVIRONMENTAL ELEMENTS AND WORKING CONDITIONS

Work is performed both inside and outside in various types of weather, incumbents work daily in a dry atmosphere and around moving objects or vehicles. Incumbents frequently work in extreme heat (above 100 F for more than an hour), are frequently subject to vibration while performing essential functions and environments with constant noise where they have to shout to be heard. Incumbents are frequently exposed to dust, fumes, smoke, gases, solvents and other chemicals, and electrical energy. Incumbents frequently work on slippery or uneven surfaces and around machinery with moving parts or stationery equipment. Incumbents are occasionally exposed to pesticides and/or silica. Incumbents occasionally work on ladders or scaffolding and work with their hands in water. Incumbents seldom (quarterly to yearly basis) work in extreme cold (below 32 F, for more than an hour), in excessive humidity, and in confined spaces. Must be able to pass a pre-employment physical and background investigation, including fingerprinting.

BENEFITS

- 3% salary raise in July 2023
- CalPERS Retirement 3% @ 55 Classic or 2% @ 57 PEPRA
- The district's maximum monthly contribution towards healthcare:
 1. Employee Only \$802.52
 2. Employee + 1 \$1,605.00
 3. Family \$2,086.51
- Dental and vision plan available.

- The district offers Dependent Care and Health Care Flexible Spending Accounts (FSA).
- Vacation Leave up to 11.08 hours per pay period.
- Sick Leave 7.4 hours per pay period.
- Holiday Pay will be paid for 13 holidays per year.
- Uniform Allowance \$900 per year.
- Longevity pays up to 5%.
- Long term disability insurance.
- Educational Incentive five hundred dollars (\$500.00) in tuition reimbursement.
- Up to \$75.00 per month towards the employees elected 457 deferred compensation plan.

APPLICATION & SELECTION PROCEDURE

Applicants who meet all the minimum requirements as described above may mail or hand deliver a cover letter, resume, application and copies of all required certifications and licenses to Rescue Fire Protection District, c/o Employment, 5221 Deer Valley Road, Rescue, CA 95672. Applications may be found on our website at <https://www.rescuefiredepartment.org>.

The district reserves the right to change the final filing date without notice when enough applications have been received. Scores earned through the testing process will be used to establish an eligibility list. Final appointments will be made based on a Chief's interview and successful completion of a background investigation.