

FORENSIC SCIENTIST (CRIME SCENE)
CS-401-09

INTRODUCTION

This position is located in the Office of the Deputy Mayor for Public Safety and Justice (ODMPSJ) in the Department of Forensic Sciences (DFS). The mission of the DFS is to provide high-quality, timely, accurate, and reliable forensic science services using best practices and best available technology, focusing on unbiased science and transparency, to enhance public safety and health.

The position is responsible for recognizing, recording, and recovering evidence in criminal investigations at the scene(s) of crime(s) by analyzing, photographing, collecting, preserving, and presenting physical evidence. Crime scenes include person crimes, such as homicides, sexual assaults, and robberies, as well as property crimes and traffic accidents, etc.

Major Duties

Receives training in and/or responds to assigned crime scenes in various locations in the city; assists with sealing the crime scene to protect and preserve important evidence.

Receives training for and/or responds to crime scenes to collect fingerprints/palm prints, tire and shoe prints, tool mark impressions, firearms, wound imprints of the deceased person(s) to facilitate positive identification and/or elimination, hair, clothing, fibers, biological evidence, or any other physical evidence deemed necessary; analyzes and records crime scenes showing correlation between evidence and the scene, and performs various chemical and photographic processes in the field or laboratory.

Photographs evidence at the crime scene that specifically correlates with collected data using film and/or digital cameras and other evidence deemed appropriate for the case.

Ensures that all persons who enter/visit the crime scene do not tamper with any evidence to avoid "evidence tampering" which might become an issue in court proceedings.

Processes evidence in the laboratory using special powders, chemical solutions, forensic light sources, and various cameras, lenses, and filters in order to develop and preserve evidence.

Attends autopsies to photograph injuries and fingerprint the deceased for identification purposes.

Assists with Improving operations, decrease turnaround times, streamline work processes, and work cooperatively and jointly with other scientists/staff members or the public to provide seamless customer service; also researches to determine if new and/or revised methods for performing analyses are warranted or determines the effectiveness of current analytical methods.

Follows evidence control procedures to maintain the proper chain-of-custody on evidence, collective evidence, the proper packaging, storage and integrity and ensures evidence is locked securely in a designated location before and after analysis.

Advises on the collection of evidence in each case, including those involving deaths, especially when homicide is suspected; evaluates risks concerning or identifying hazardous materials in the field and the laboratory.

Conducts a wide variety of complex and difficult analyses; decides what tests and procedures to use; and may conduct quantitative and qualitative analysis by using specific techniques, including but not limited to physical testing, visual analysis, identification and classification, comparisons, etc.

Utilizes computer software to analyze results of tests in order to perform calculations and keeps up-to-date on current studies, pamphlet, journals, and books for use in devising methods and tests; develops charts, graphs, and tables as aids to conduct tests; evaluates laboratory test results in the area of concern; prepares technical reports on findings and project results.

Testifies in court as an expert witness in connection with the evidence processed, developed and preserved.

Prepares detailed reports and supplements; accepts documents, and bar-codes evidence associated with each crime scene case.

Performs other related duties as assigned.

Factor 1 - KNOWLEDGE REQUIRED BY THE POSITION

Knowledge of principles, theories, concepts and practices of analytical chemistry, physical science, or biology or related field to the work.

Ability to learn and perform in accordance with protocol, internal operations, etc., that are associated with various types of crime scene scenarios effectively.

Knowledge of mathematics and statistics as they relate to analytical laboratory work.

Knowledge of safety practices and procedures that apply to field analysis, particularly in the forensic laboratories; and knowledge, skill and ability to maintain research methods and techniques, keep informed of current literature and/ precedence relevant to the forensic scientific fields.

Knowledge of and skill in collecting and processing crime scene evidence utilizing a variety of technical equipment, materials, methods and photographic processes.; and ability to perform complex scientific analyses and adhere to quality assurance standards and processes with these methods.

Research skills associated with the crime scene, scientific methods, techniques and testing are required.

Knowledge of the rules of evidence and the methods used in presenting evidence in court; and policies and procedures for maintaining the chain-of-evidence integrity.

Ability to prepare technical forms, reports, and other correspondence; and excellent oral and written communication skills.

Ability to maintain effective working relationships with associates, consultants, regulatory agencies, and the general public; and ability to work safely without presenting a threat to self or others.

Ability to testify effectively in court.

Skill and ability to use a personal computer to prepare, store, and retrieve data and knowledge of software affiliated with crime scene data.

FACTOR 2 - SUPERVISORY CONTROLS

Works under the general direction the supervisor who provides instruction on new or unusual techniques, desired results, data to obtain, change in regulatory constraints, methods and procedures that may apply to specific cases. Determines the validity of test methods and results and recommends acceptance or rejection of evidence items. Consults with supervisor on unusual technical problems and exercises independent responsibility and is held accountable for actions and findings.

Completed assignment are reviewed for conformance to guidelines, feasibility, soundness of overall approach and the effectiveness of meeting objectives, deadlines, and expected results and adherence to requirements.

FACTOR 3 - GUIDELINES

Guides consist of policies and procedures of DFS; governing laws and regulations of the District and Federal Government; methods, processes, techniques, procedures, protocols, testing regulations, previous/precedent cases, technical references, forensic techniques and literature, catalogs and handbooks, internal protocol and instructions, etc. These guides are normally applicable, but may require the incumbent to exercise judgment when applying them to specific work situations/cases that may not be covered.

FACTOR 4 - COMPLEXITY

The work requires learning the techniques of crime scene tasks such as collecting evidence and identifying their significance to assists with performing a variety of research and tests which often times are different or unrelated based on the crime scene requiring substantial know-how in solving significant issues and problems of situational difficulty and physical impediments. With assistance from the supervisor the incumbent is required to determine the appropriate process, sequence and direction of the work and interprets the collected evidence and test data in order to identify whether modifications are required and/or if there are any questionable problems or issues and adaptability and flexibility is required in order to adhere to protocols are essential; and may have to contend with the absence of criteria; and with new methods and equipment. Use discretion and sound judgment in determining proper courses of action from formal training or work experience and must be able to assess and evaluate a variety of situations, problems, conditions, or questions.

SCOPE AND EFFECT

Conducts scientific examinations including collecting the appropriate samples to prepare for examination/testing; prepares documentation regarding findings and analyzes what is instrumental in preparing the results of the tests; and identifies problems that may alter collected evidence. Ensures that all documentation is in the appropriate order for court cases and/or final discovery.

The result of the work affects the department's credibility, adequacy, accuracy and effectiveness of the field investigations, laboratory tests, and ensures its relevancy to the case to assist with closure. The results are also binding and affect the judicial proceedings.

PERSONAL CONTACTS

Contacts are with agency officials and employees, laboratory personnel, consultants, regulatory agencies, the general public, law enforcement, other scientists, and investigators.

PURPOSE OF CONTACTS:

Contacts are for the purpose of collecting/gathering information pertinent to processing the crime scene, exchanging information, ensuring the orderly flow of work as it pertains to crime scene. Works cooperatively with the public and other City employees; and work safely without presenting a risk to self or others.

PHYSICAL DEMANDS:

The incumbent is subject to handling dead and decomposed bodies and bodies that may pose a health risk, strong odors, insects, hostile and emotionally charged situations and animals. Manual dexterity, flexibility and boxes/cases that may require considerable strenuous physical exertion such as lifting/moving objects up to fifty (50) pounds; and long periods of standing, walking, stretching, bending and sufficient eye sight and hand coordination is required.

WORK ENVIRONMENT:

Work is performed in the field (crime scenes), in the laboratory during the testing, analysis, and autopsies, as well as, in an office setting when preparing documentation/reports, etc. Also work in a variety of weather conditions with exposure to the elements and travel/walk over rough, uneven, or rocky surfaces. The incumbent may be exposed to hazardous materials, toxic substances, and blood borne pathogens and is required to follow safe field and laboratory practices and wear protective clothing, including facial masks, safety glasses, gloves, etc. In addition may be exposed to objectionable material (e.g. pornography, etc.)

OTHER SIGNIFICANT FACTORS

Shift, weekend, and holiday work is required.

A Bachelor of Science degree in a natural or forensic science from an accredited university; graduates of programs accredited by the Forensic Science Educational Program Accreditation Commission (FEPAC; www.aafs.org/fepac) are preferred.

SPECIAL REQUIREMENTS:

" This position's duty station will be housed within the Consolidated Forensic Laboratory (CFL) which is a protection-sensitive facility. As such, incumbents of this position shall be subject to criminal background checks, background investigations, and mandatory drug and alcohol testing, as applicable. Due to the handling of primary evidence, the applicant will be required to submit a buccal swab for the purposes of the DNA Quality Control database for the DFS.

The nature of the DFS mission necessarily involves the potential risks associated with biological or chemical hazards, including morgue functions. Although contact with these functions is intended to be minimal, the risks are nevertheless possible; training to recognize, address, and mitigate these risks is required as is dealing with potentially personally difficult topics, such as crime, death, and disease.