



COUNTY OF LOS ANGELES
invites applications for the position of:

CRIMINALIST

SALARY: \$5,492.64 - \$6,823.36 Monthly
\$65,911.68 - \$81,880.32 Annually

OPENING DATE: 03/03/17

CLOSING DATE: Continuous

POSITION/PROGRAM INFORMATION:



MEDICAL EXAMINER-CORONER

THIS ANNOUNCEMENT IS A REBULLETIN TO REOPEN THE FILING PERIOD AND TO UPDATE THE SPECIAL INFORMATION SECTION. PERSONS WHO HAVE APPLIED WITHIN THE LAST 12 MONTHS NEED NOT REAPPLY, BUT MAY SUBMIT ADDITIONAL INFORMATION IF THEY WISH. THE INFORMATION MUST INCLUDE YOUR NAME, THE CORRECT EXAMINATION TITLE AND NUMBER.

FILING START DATE

3/10/2017 at 8:00 AM (PST)

This examination will remain open until the needs of the service are met and is subject to closure without prior notice.

EXAM NUMBER

R4333C

TYPE OF RECRUITMENT

Open Competitive Job Opportunity

BENEFIT INFORMATION

The County of Los Angeles offers an excellent benefits package that includes a contributory defined benefit retirement plan, medical coverage, dental coverage, group life insurance, AD&D insurance, health care spending accounts, long-term disability health insurance and subsidized Dependent Care Spending Accounts.

DEFINITION

Performs physical and chemical analyses required in forensic investigations.

CLASSIFICATION STANDARDS

Positions allocable to this entry level class typically report to a Supervising Criminalist and work under close supervision and guidance in each section of a forensic science or criminalistics laboratory, receiving work of a progressively responsible nature and of broadening scope as capability develops and complete familiarity with all phases of laboratory analysis is gained. Incumbents in this class are

characterized by their participation in an extensive, mandatory in-service training program designed to teach the techniques and procedures used in forensic science or criminalistic laboratories and through on-the-job training, prepare incumbents for higher level criminalistic positions. Incumbents are required to respond to crime scenes at any time during their assigned shift, as well as during off duty hours, and will be required to testify in court regarding their analyses.

ESSENTIAL JOB FUNCTIONS:

- **Performs physical, chemical, and microscopic analyses of evidentiary material** (e.g., narcotics, drugs, trace materials, tool marks, body tissues and fluids, etc.) encountered in the course of criminal investigations by utilizing microscopic techniques, comparison macrophotography, chromatography, spectroscopy, and physical analytical and comparison techniques using laboratory instruments (e.g., thermocyclers, genetic analyzers, light and electron microscopes, gas chromatographs, spectrometers, basic laboratory equipment, etc.) to determine the nature and quality of toxic substances in body tissue and fluids of deceased persons for forensic or criminalistics purposes; assists the deputy medical examiner in determining the cause, circumstance, and manner of death (e.g., natural, accident, homicide, suicide, etc.); and complies with Federal and State laws, County ordinances, safety guidelines, and departmental policies.
- **Identifies, collects, documents, and properly stores physical evidence** (e.g., gunshot residue, appliances, ligatures, prescription drugs, narcotics and paraphernalia, trace evidence, sexual assault evidence, etc.) by operating relevant investigative equipment (e.g., digital camera and alternate light source), and maintaining a proper chain of custody (e.g., ensuring that evidence is not contaminated and limiting access to evidence, etc.) to ensure the integrity of the collected evidence and complying with the Federal and State rules regarding evidence collection, safety guidelines, and departmental policies.
- **Performs scientific forensic investigations at various crime scenes** by examining, collecting, documenting, interpreting, and preserving physical evidence (e.g., gunshot residue, appliances, ligatures, prescription drugs, narcotics and paraphernalia, trace evidence, sexual assault evidence, etc.); operating relevant investigative equipment (e.g., digital camera and alternate light source); and maintaining a proper chain of custody (e.g., ensuring that evidence is not contaminated and limiting access to evidence, etc.) to ensure the integrity of the collected evidence, preparing evidence for analysis and evaluation, and complying with the Federal and State rules regarding evidence collection, safety guidelines, and departmental policies.
- **Prepares a variety of written documents** (e.g., technical reports of laboratory analyses and results, displays for court presentations, investigative reports, evidence logs, email correspondence, etc.) by compiling and organizing facts and conclusions, and composing the text in a logical manner using appropriate computer software programs (e.g., word processing, spreadsheet, presentation, etc.) in order to write technical reports of analytical findings and offer expert opinion based on those findings; presents information to appropriate parties (e.g., supervisors, attorneys, investigators, medical staff, etc.) and facilitates accurate and effective communication, reporting, and record keeping within and between the Department, law enforcement agencies, and general public in compliance with Federal and State laws and departmental policies.
- **Provides expert testimony in judicial proceedings** by conveying procedural and/or technical information related to laboratory analyses and criminal investigations, articulating clearly and concisely the facts and conclusions of the case, rendering expert opinions, and responding to challenges with professionalism and clarity in order to accurately represent the findings and conclusions determined by the analysis of the evidentiary material.
- **Interacts with a variety of individuals** (e.g., coworkers, supervisors, law enforcement agencies, medical professionals, other scientific investigatory agencies, etc.) to coordinate findings, seek alternative methods of analysis involving specific case studies, provides support and information on cases, and serve as a point of contact; communicates with various law enforcement agencies with respect to departmental policies, laboratory procedures, and issues in order to represent the Department in a professional manner; and facilitates communication and cooperation between the Department and interested parties.

- **Maintains current scientific knowledge and practices in the field of forensic sciences** (e.g., ASCLD/LAB-ISO requirements and departmental policies and procedures) by attending professional conferences or meetings (e.g., Society of Forensic Toxicologist, American Academy of Forensic Science, California Association of Criminalist, etc.), scientific training sessions, in-service education programs, annual training and proficiency programs, and by reviewing information obtained from Department memoranda, staff meetings, professional publications, etc. to maintain proficiency in the practice of forensic science.
- **Complies with all applicable health and safety standards and good laboratory practices** (e.g., using personal protective equipment and ensuring it is in good working condition, following appropriate blood-borne pathogen practices, handling of chemical and biological materials properly, etc.) by following the applicable guidelines (e.g., CAL-OSHA) and reporting defects or problems so they can be appropriately addressed or repaired in order to maintain a clean, safe, and professional work environment.
- **Complies with established quality control procedures** (e.g., technical and administrative reviews) to ensure proper functioning of laboratory and safety equipment, analytical instruments, reagents, and work areas in compliance with the ASCLD/LAB-ISO guidelines (e.g., technical and administrative reviews), safety guidelines, and departmental policies and procedures.
- **Conducts research and development into new scientific methods and techniques related to forensic science** by researching applicable publications, implementing new industry guidelines, and studying emerging research in the field of forensic science (e.g., new narcotics) to maintain the competencies of the forensic laboratory.

REQUIREMENTS:

SELECTION REQUIREMENTS

A Bachelor's degree* from an accredited college with specialization in criminalistics, biology, chemistry, biochemistry, or a closely related scientific field, including at least eight semester hours of general chemistry and three semester hours of quantitative analysis.

LICENSE

A valid California Class C Driver License is required to perform job-related essential functions of the position. Successful applicants for this position will be required to obtain a copy of his/her driving record from the California State Department of Motor Vehicles before being appointed. License must not be suspended, restricted, or revoked. AN APPLICANT WHOSE DRIVING RECORD SHOWS FOUR OR MORE MOVING VIOLATIONS WITHIN THE LAST TWO YEARS WILL NOT BE APPOINTED.

Out of state applicants must have a valid license from the state in which they reside at the time of filing and will be required to obtain a California Class "C" or above driver license by the time of hire.

PHYSICAL CLASS:

2 - Light. Light physical effort which may include occasional light lifting to a 10 pound limit, and some bending, stooping or squatting. Considerable walking may be involved.

ADDITIONAL INFORMATION:

EXAMINATION CONTENT

PART I: A written test that consists of both a computerized and paper-and-pencil component measuring written expression, data analysis & decision making/mathematics, reading comprehension, deductive reasoning, professional potential, achievement, independence, influence, confidence and optimism, and reliability, weighted 50%.

Applicants must achieve a 70% on Part I in order to advance to Part II.

PART II: An interview covering basic knowledge of physical, chemical, and microscopic analyses, work skills and oral communication, weighted 50%.

Applicants must meet the Selection Requirements and achieve a passing score of 70% or higher on each weighted part of the examination in order to be placed on the eligible register.

THE WRITTEN TEST IS NOT REVIEWABLE BY CANDIDATES PER CIVIL SERVICE RULE 7.19.

Applicants who have taken identical written tests for other exams within the last twelve (12) months will have their written test scores for the identical test part(s) automatically transferred to this examination. This includes any exams taken with the Los Angeles Superior Court.

This examination contains test parts that may be used in the future for new examinations. Upon acceptance of your application, your scores will be transferred to the new examination, and may not be allowed to re-take any identical test part(s) for at least twelve (12) months.

Invitation letters for both the written examination and structured interview will be sent electronically to the email address provided on the application. It is important that candidates provide a valid email address. Please add arteaga@hr.lacounty.gov to your email address book and list of approved senders to prevent email notifications from being filtered as spam/junk/clutter mail.

Final results will be sent by U.S. mail. Written scores cannot be given over the phone.

TEST PREPARATION INFORMATION

An interactive, Online Test Preparation System for taking practice tests and printable information may be accessed on the Department of Human Resources Job Resources website at <http://hr.lacounty.gov/job-search-toolkit/>. Test preparation information is located under the "Employment Test Assistance" section.

You can also access test preparation for the computerized portion of the test by going to http://www.shldirect.com/practice_tests.html. While these study guides will help in preparing for the written test, we advise you to review ALL related materials that you deem necessary to prepare for this test.

ELIGIBILITY INFORMATION

The names of candidates receiving a passing grade in the examination will be placed on the eligible register for a period of twelve (12) months from the date the list is created.

Applications will be processed on an as received basis and promulgated to the eligible register accordingly.

NO PERSON MAY COMPETE FOR THIS EXAMINATION MORE THAN ONCE EVERY 12 MONTHS.

SPECIAL INFORMATION

Candidates selected for appointment will be extended an offer of employment that is conditional upon the results of a background investigation which includes a medical screening and a psychological evaluation.

Candidates who are DISQUALIFIED from the Los Angeles County Medical Examiner background process will have to wait a period of twelve (12) months from the date of the disqualification to reapply.

VACANCY INFORMATION

The resulting eligible register will be used to fill vacancies in the Los Angeles County Department of Medical Examiner-Coroner located at 1104 North Mission Road, Los Angeles, CA 90033.

APPLICATION AND FILING INFORMATION

Applications must be filed online only. We must receive your application by 5:00 p.m., PST, on the last day of filing. Applications submitted by U.S. mail, fax, or in person will not be accepted.

Apply online by clicking on the "Apply" button for this posting. You can also track the status of your application using this web site.

*In order to receive credit for any degree and required coursework, you must attach a legible copy of official diploma, official transcripts, and/or official letter from the accredited institution which shows the area of specialization at the time of filing or within fifteen (15) calendar days from application submission. If you are unable to attach the required documents, you must either email to arteaga@hr.lacounty.gov or fax to (213) 380-3681 within fifteen (15) calendar days of filing. Please

include exam number and exam title.

SOCIAL SECURITY NUMBER: Please include your Social Security Number for record control purposes. Federal law requires that all employed persons have a Social Security Number.

COMPUTER AND INTERNET ACCESS AT PUBLIC LIBRARIES: For candidates who may not have regular access to a computer or the internet, applications can be completed on computers at public libraries throughout Los Angeles County.

NO SHARING OF USER ID AND PASSWORD: All applicants must file their application online using their *own* user ID and password. Using a family member's or friend's user ID and password may erase a candidate's original application record.

Available Shift: Any

California Relay Services Phone: (800) 735-2922

ADA Coordinator Email: adarequests@hr.lacounty.gov

Teletype Phone: (800) 899-4099

Alternate Teletype Phone: (800) 897-0077

Department Contact Name: Olga Arteaga

Department Contact Phone: (213) 351-2936

Department Contact Email: uarteaga@hr.lacounty.gov

COUNTY OF LOS ANGELES Employment Information

Any language contained in the job posting supersedes any language contained below.

Your Responsibilities:

1. Completing Your Application:

- a. Before submission of the application, it is your responsibility to ensure that all information provided is correct and complete on the application. Incomplete applications cannot be accepted.
- b. Please list separately the PAYROLL TITLE for each job. Do not group your experience. Specify the beginning and ending dates for each job. If you are a County employee and have been promoted, do NOT list all of your time with the County under your present payroll title.
- c. Please include your Social Security Number for record control purposes. Federal law requires that all employed persons have a Social Security Number.
- d. To receive APPROPRIATE CREDIT, include a copy of your diploma, transcript, certificate, or license as directed on the job posting.

2. Minimum or Selection Requirements are listed in the job posting.

- a. YOUR APPLICATION WILL BE ACCEPTED ONLY IF IT CLEARLY SHOWS YOU MEET THESE REQUIREMENTS. The information you give will determine your eligibility and is subject to verification at any time.
- b. You must be at least 16 years of age at the time of appointment unless other age limits are stated on the job posting. The Federal Age Discrimination in Employment Act (ADEA) of 1967, as amended, prohibits discrimination on the basis of age for any individual over age 40.
- c. Your experience may be paid or unpaid unless the job posting states otherwise. Experience is evaluated on the basis of a verifiable 40-hour week.

3. Application Deadline:

- a. All job applications must be completed and submitted by the last day of the filing period and closing time as indicated on the job posting unless other instructions are provided. Job postings with an open continuous filing period are subject to closure without prior notice. It is to your advantage to file your application early and not wait until the last allowable date and time as you will not be able to apply once the filing period has closed.
- b. Applications for positions designated "Apply in Person" must be filed in person at the address provided on the job posting.

4. Change of Name or Address:

To change personal information such as your name or address, log into your profile and make the necessary change. This can be done at any time.

5. Promotional Examinations:

- a. Some of your experience may have been in a position in which such work is not typically performed. If such experience is permitted as indicated on the job posting, a signed Verification of Experience Letter (VOEL) signed by your department's Human Resources Office must be attached to your application unless otherwise stated on the job posting.
- b. If indicated on the job posting, permanent employees who have COMPLETED THEIR INITIAL PROBATIONARY PERIOD AND HOLD A QUALIFYING PAYROLL TITLE may file for promotional examinations if they are within six months of meeting the experience requirements by the last day of filing or at the time of filing for open continuous exams.

6. Equal Employment Opportunity/Non-Discrimination Policy:

- a. It is the policy of the County of Los Angeles to provide equal employment

Social Security Act of 2004: Section 419 (c) of Public Law 108-203, the Social Security Protection Act of 2004, requires State and local government employers to disclose the effect of the Windfall Elimination Provision and the Government Pension Offset Provision to employees hired on or after January 1, 2005, in jobs not covered by Social Security. The County of Los Angeles does not participate in the Social Security System. All newly hired County of Los Angeles employees must sign a statement (Form SSA-1945) prior to the start of employment indicating that they are aware of a possible reduction in their future Social Security benefit entitlement. For more information on Social Security and about each provision, you may visit the website www.socialsecurity.gov, or call toll free 1-800-772-1213. Persons who are deaf or hard of hearing may call the TTY number 1-800-325-0778 or contact a local Social Security office.

Record of Convictions: As part of the selection process you may be required to complete and submit a Candidate Conviction History Questionnaire (CCHQ). PLEASE DO NOT SUBMIT THE CCHQ WITH YOUR APPLICATION, unless instructed to do so. A full disclosure of all convictions is required, when requested. Failure to disclose convictions will result in disqualification. Not all convictions constitute an automatic bar to employment. Factors such as your age at the time of the offense (s), and the recency of offense(s) will be taken into account, as well as the relationship between the offense(s) and the job(s) for which you apply. However, any applicant for County employment who has been convicted of either workers' compensation fraud or human trafficking is automatically barred from employment with the County of Los Angeles (County Code Section 5.12.110). ANY CONVICTIONS OR COURT RECORDS WHICH ARE EXEMPTED BY A VALID COURT ORDER DO NOT HAVE TO BE INCLUDED.

For more information regarding convictions that are not subject to disclosure, please refer to the CCHQ from the link below:
<http://file.lacounty.gov/dhr/CCHQ.pdf>

Americans with Disabilities Act of 1990: All positions are open to qualified men and women. Pursuant to the Americans with Disabilities Act of 1990, persons with disabilities who believe they need reasonable accommodation, or help in order to apply for a position, may contact the ADA/Personnel Services for Disabled Persons Coordinator. Hearing impaired applicants with telephone teletype equipment may leave messages by calling the teletype phone number on the job posting. The County will attempt to meet reasonable accommodation requests whenever possible.

Veteran's Credit: In all open competitive examinations, a veteran's credit of 10 percent of the total credits specified for such examinations will be added to the final passing grade of an honorably discharged veteran who served in the Armed Forces of the United States under any of the following conditions: During a declared war; -or- During the period April 28, 1952 through July 1, 1955; -or- For more than 180 consecutive days, other than for training, any part of which occurred after January 31, 1955, and before October 15, 1976; -or- During the Gulf War from August 2, 1990 through January 2, 1992; -or- For more than 180 consecutive days, other than for training, any part of which occurred during the period beginning September 11, 2001, and ending on August 31, 2010 the last day of Operation Iraqi Freedom; -or- In a campaign or expedition for which a campaign medal or expeditionary medal has been authorized and awarded. Any Armed Forces Expeditionary medal or campaign badge, including El Salvador, Lebanon, Grenada, Panama, Southwest Asia, Somalia, and Haiti qualifies for credit.

COUNTY OF LOS ANGELES Employment Information

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opportunity for all qualified persons, regardless of race, color, religion, sex, national origin, age, sexual orientation or disability.

b. If you require material in an ALTERNATE FORMAT or are an individual requesting REASONABLE ACCOMMODATION(S) in the examination process for a physical or mental disability, please CONTACT THE AMERICANS WITH DISABILITIES ACT (ADA) COORDINATOR LISTED ON THE JOB POSTING. The provision of reasonable accommodation may be subject to verification of disability as allowable with State and Federal law. All disability-related information will remain confidential.

Disclaimer: The County of Los Angeles is not responsible or in any way liable for any computer hardware or software malfunction which may affect the employment application or the application selection process.

You assume all responsibility and risk for the use of this system and the Internet generally. This system and the information provided on it are provided on an "as is" and "as available" basis without warranties of any kind, either express or implied. No advice or information given by the County of Los Angeles or its respective employees shall modify the foregoing or create any warranty.

The County of Los Angeles expressly disclaims any warranty that the information on this system or on the Internet generally will be uninterrupted or error free or that any information, software or other material accessible from the system is free of viruses or other harmful components. You shall have no recourse against the County of Los Angeles as the system provider for any alleged or actual infringement of any proprietary rights a user may have in anything posted or retrieved on our system.

The County of Los Angeles shall not be liable for any direct, indirect, punitive, incidental, special or consequential damages arising out of or in any way connected with the use of this system or with the delay or inability to use it (or any linked sites), or for any information obtained through this system, or otherwise arising out of the use of this system, the Internet generally or on any other basis.

NOTE: Your application is submitted using Secure Encryption to ensure the privacy of all information you transmit over the Internet.

By accepting the Use Disclaimer set forth here, you agree to all of the above terms and further agree to use this Online Job Employment Application System only for the submission of bona fide employment applications to the County of Los Angeles. Any other use of this Online Job Employment Application System, including without limitation any copying, downloading, translation, decompiling, or reverse engineering of the system, data, or related software, shall be a violation of the Use Disclaimer.

Benefit Information: Depending on the position, the successful candidate will enroll in a contributory defined benefit pension plan if the candidate is a "new member" of the County's defined benefit plan (LACERA) on or after January 1, 2013 (first employed by the County on or after December 1, 2012) - unless she or he established reciprocity with another public retirement system in which she or he was a member before January 1, 2013. It should be noted that County employees do not pay into Social Security, but do pay the Medical Hospital Insurance Tax portion of Social Security at a rate of 1.45%. The Los Angeles County Employees Retirement Association (LACERA) has reciprocal agreements with several public retirement systems in California.

A campaign medal holder or Gulf War veteran who originally enlisted after September 7, 1980 (or began active duty on or after October 14, 1982, and has not previously completed 24 months of continuous active duty) must have served continuously for 24 months or the full period called or ordered to active duty.

This also applies to the spouse of such person who, while engaged in such service was wounded, disabled or crippled and thereby permanently prevented from engaging in any remunerative occupation, and also to the widow or widower of any such person who died or was killed while in such service. A DD214, Certificate of Discharge or Separation from Active Duty, or other official documents issued by the branch of service are required as verification of eligibility for Veterans preference. Applicants must submit the documentation for each open competitive exam to qualify for veteran's credit.

Employment Eligibility Information: Final appointment is contingent upon verification of U.S. citizenship or the right to work in the United States. Immigration law provides that all persons hired after November 6, 1986, are required to present original documents to the County, within three (3) business days of hiring, which show satisfactory proof of: 1) identity and 2) U.S. employment eligibility.

Los Angeles County Child Support Compliance Program: In an effort to improve compliance with court-ordered child, family and spousal support obligations, certain employment and identification information (i.e., name, address, Social Security number and date of hire) is regularly reported to the State Directory of New Hires which may assist in locating persons who owe these obligations. Family Code Section 17512 permits under certain circumstances for additional employment and identifying information to be requested. Applicants will not be disqualified from employment based on this information.

The California Fair Employment and Housing Act (Part 2.8 commencing with Section 12900 of Division 3 of Title 2 of the Government Code) and the Regulations of the Fair Employment and Housing Commission (California Code of Regulations, Title 2, Division 4, Sections 7285.0 through 8504) prohibits employment discrimination based on race or color; religion; national origin or ancestry, physical disability; mental disability or medical condition; marital status; sex or sexual orientation; age, with respect to persons over the age of 40; and pregnancy, childbirth, or related medical conditions.

Accreditation Information: Accredited institutions are those listed in the publications of regional, national or international accrediting agencies which are accepted by the Department of Human Resources. Publications such as American Universities and Colleges and International Handbook of Universities are acceptable references. Also acceptable, if appropriate, are degrees that have been evaluated and deemed to be equivalent to degrees from United States accredited institutions by an academic credential evaluation agency recognized by The National Association of Credential Evaluation Services or the Association of International Credential Evaluators, Inc. (AICE).

Test Preparation: Study Guides and other test preparation resources are available to help candidates prepare for employment tests. An interactive, Online Test Preparation System for taking practice tests may be accessed on the Department of Human Resources website at <http://hr.lacounty.gov/job-search-toolkit>. Scroll down to the "Employment Test Assistance" section and click on the "VISIT ONLINE TEST PREP SYSTEM" link. Additional test preparation resources may be listed on the job posting.

Equal Employment Opportunity: It is the policy of the County of Los Angeles to provide equal employment opportunity for all qualified persons, regardless of race, religion, sex, national origin, age, sexual orientation, or disability or any other characteristic protected by State or Federal law. All positions are open to qualified men and women pursuant to the Americans with Disabilities Act of 1990 and the California Fair Employment and Housing Act. The County will comply with all of its obligations under State and Federal laws regarding the provision of reasonable accommodations to applicants.

APPLICATIONS MAY BE FILED ONLINE AT:
<http://hr.lacounty.gov>

Position #R4333C
CRIMINALIST
OA

Los Angeles, CA 90010

CRIMINALIST Supplemental Questionnaire

- * 1. The information you provide on this supplemental questionnaire will be evaluated and used to determine your eligibility to participate in the next phase of the examination process. Please be as

specific as possible and include all information as requested. Comments such as "see resume or application" will not be considered as a response. Please note that all information is subject to verification at any time in the examination and hiring process. Falsification of any information may result in disqualification or dismissal. *I have read and understand the above instructions.*

Yes

- * 2. I possess a Bachelor's degree or higher from an accredited college with specialization in: *Select all that apply.* **A legible copy of official diploma, official transcripts, and/or official letter from the accredited institution which shows the area of specialization must be submitted at the time of filing or within fifteen (15) calendar days from application submission.**

Criminalistics

Biology

Chemistry

Biochemistry

A closely related scientific field

None of the above

- * 3. For your selection above, provide the following:

1. Type of degree conferred (e.g., Associate of Science, Bachelor of Science)
2. Area of specialty (e.g., administration of justice, a health/physical science, nursing)
3. Name of the institution which conferred the degree
4. Graduation date

If this does not apply, indicate "N/A".

- * 4. Select the coursework you have completed. *Select all that apply.* **A legible copy of your transcript must be attached to your application or submitted within fifteen (15) calendar days from application submission. Transcripts should include ALL required coursework and degree information as outlined in the job bulletin.**

Eight (8) semester hours of general chemistry.

Three (3) semester hours of quantitative chemical analysis.

None of the above

- * 5. For the coursework selected above, provide the name(s) of the college(s) where the coursework was completed, the course title(s) and course number(s) as it appears in your transcript. If this does not apply, indicate "N/A".

- * Required Question