

Public Notice for Direct Hire (Data Modernization) - Mathematician Statistician

DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention

Summary

As a global leader in public health & health promotion, CDC is the agency Americans trust with their lives. In addition to our everyday work, each CDC employee has a role in supporting public health emergency management, whether through temporary assignments to emergency responses or sustaining other CDC programs and activities while colleagues respond. Join our team to use your talent, training, & passion to help CDC continue as the world's premier public health organization. Visit www.cdc.gov

Overview

Accepting applications

Open & closing dates

🕒 05/28/2024 to 09/30/2024

Salary

\$49,025 - \$186,854 per year

Salary listed is Rest of U.S. and will be adjusted to reflect location after selection.

Pay scale & grade

GS 7 - 15

Locations

Few vacancies in the following locations:

- 📍 Anchorage, AK
- 📍 Los Angeles, CA
- 📍 San Diego, CA
- 📍 San Francisco, CA

Additional locations are listed below.

Remote job

No

Telework eligible

Yes—as determined by the agency policy.

Travel Required

Occasional travel - You may be expected to travel for this position.

Relocation expenses reimbursed

No

Appointment type

Multiple Appointment Types

Work schedule

Multiple Schedules

Service

Competitive

Promotion potential

00 - Contingent - Promotion potential will be based on the position to which appointed.

Job family (Series)

[1529 Mathematical Statistics](#)

Supervisory status

No

Security clearance

[Not Required](#)

Drug test

No

Position sensitivity and risk

[Moderate Risk \(MR\)](#)

Trust determination process

[Credentialing](#)

[Suitability/Fitness](#)

Announcement number

HHS-CDC-DMI-DH-24-12428335

Control number

793143700

This job is open to



[Career transition \(CTAP, ICTAP, RPL\)](#)

Federal employees who meet the definition of a "surplus" or "displaced" employee.



The public

U.S. Citizens, Nationals or those who owe allegiance to the U.S.

Clarification from the agency

Please read this Public Notice in its entirety prior to submitting your application for consideration. You are applying to a resume database. Your resume and any documents submitted will be retained and may be used at any time during or after the open period of this Public Notice. U.S. Citizenship is REQUIRED.

This job is also open in another announcement to:



Career transition (CTAP, ICTAP, RPL)



The public

Duties

The CDC utilizes Direct/Expedited Hire Authorities to fill vacancies in a variety of occupations. This vacancy is a **REPOSITORY** of applications. Duties and responsibilities vary and may increase according to the grade level of the position. Applications may be periodically referred to hiring managers both during the open period and after the closing date. Because of the large number of applications anticipated, applicants' status will not be updated.

This public notice will be used to fill the positions listed below at multiple grade levels and locations.

- **Mathematical Statistician (Data Scientist): Grades GS-7 through GS-15**
- **Mathematical Statistician (Informatics): Grades GS-7 through GS-15**

Duties may include but are not limited to:

- Identifying relevant data available, including internal and external data sources, leveraging new data collection processes such as smart meters and geo-location information, or social media and unstructured web-based data.
- Communicating and working with business subject matter experts to educate the organization both from IT and business perspectives on new approaches, such as testing hypotheses and statistical validation of results.
- Recommending using innovative data science strategies for ongoing improvements to methods and algorithms that lead to findings, including new information.
- Providing business metrics for overall projects to show contributions and improvements from monitoring of initial stages and through multiple iterations.
- Designing experiments, testing hypotheses, and building scalable data science models.
- Conducting advanced data analysis and designs complex algorithms using artificial intelligence (e.g., machine learning) methods.

Requirements

Conditions of Employment

Due to the Centers for Disease Control and Prevention's (CDC's) process enhancement to use Shared Certificates throughout the Agency, some of the requirements below may differ:

- US Citizenship is required.
- Males born after December 31, 1959 must be registered or exempt from Selective Service (<http://www.sss.gov>).
- May be subject to a Background/Security Investigation. **Security clearance level may differ from the position announced when certificates are shared.**
- CDC participates in the USCIS Electronic Employment Eligibility Verification Program ([E-Verify](#)). If selected, CDC will determine your employment eligibility using your social security number.
- Direct deposit is required.
- One-year probationary period may be required.
- This position may be subject to a Collective Bargaining Agreement.
- This public notice may be used to fill supervisory or managerial positions and selectees may be subject to 1 year supervisory or managerial probationary period.
- Positions may be filled as permanent or term appointments.
- This position may be subject to the OGE Financial Disclosure requirements of the Ethics in Government Act of 1978 (P.L. 95-521). CDC inspires public confidence in its trust responsibilities and mission by maintaining high ethical principles. If selected, you may be required to complete a Confidential Financial Disclosure Report (OGE Form 450) to determine if a conflict or an appearance of a conflict exists between your financial interest and your prospective position with the agency. If identified, this will be an annual requirement.
- In accordance with Executive Order 12564 of September 15, 1986, The Department of Health and Human Services (HHS) is A Drug-Free Federal Workplace. This position may require a Drug Test and be subject to Random Drug Testing. The position may require the submission of a urinalysis to screen for illegal drug use prior to appointment and be subject to reasonable suspicion and post-accident drug testing upon hiring. If required to submit to urinalysis, the appointment to the position will be contingent upon a negative test result.

Qualifications

Basic Qualifications:

1. Degree: that included 24 semester hours of mathematics and statistics, of which at least 12 semester hours were in mathematics and 6 semester hours were in statistics.

or

2. Combination of education and experience: at least 24 semester hours of mathematics and statistics, including at least 12 hours in mathematics and 6 hours in statistics, as shown above, plus appropriate experience or additional education.

Minimum Qualifications:

- **GS-7:**
 - At least 1 year of graduate-level education **OR**
 - Superior academic achievement (**See Education section**) **OR**
 - Data Scientist: At least 1 year of specialized experience, equivalent to the GS-05 grade level in the Federal service, to include experience conducting data analysis and designs complex algorithms using artificial intelligence (e.g., machine

learning) methods; and assisting in data collection analysis, and retention requirements based on the surveillance data collected **OR**

- Informatics: At least 1 year of specialized experience, equivalent to the GS-05 grade level in the Federal service, to include experience assisting with gathering and evaluating data to develop public health information systems **OR**
- A combination of education & experience

- **GS-9:**

- At least 2 years of progressively higher-level graduate education leading to a master's degree *or* master's or equivalent graduate degree **OR**
- Data Scientist: At least 1 year of specialized experience, equivalent to the GS-07 grade level in the Federal service, to include experience conducting data analysis and designing algorithms using artificial intelligence (e.g., machine learning) methods; providing on-going tracking and monitoring of performance of decision systems and statistical models; and assisting in preparing comprehensive reports that include discussion of substantive issues related to data science methodology for public health surveillance **OR**
- Informatics: At least 1 year of specialized experience, equivalent to the GS-07 grade level in the Federal service, to include experience assisting with analyzing data sets/information using informatics, systems, and a variety of reporting tools to improve public health; and assisting with gathering and/or interpreting quantified information on scientific and public health issues and programs **OR**
- A combination of education & experience

- **GS-11:**

- At least 3 years of progressively higher-level graduate education leading to a Ph.D. degree *or* Ph.D. or equivalent doctoral degree **OR**
- Data Scientist: At least 1 year of specialized experience, equivalent to the GS-09 grade level in the Federal service, to include experience assisting in the implementation of data collection systems; producing and documenting analytic data files; and/or conducting basic statistical analyses of population, clinical, health, or administrative data **OR**
- Informatics: At least 1 year of specialized experience, equivalent to the GS-09 grade level in the Federal service, to include experience analyzing data sets/information using informatics, systems, and a variety of reporting tools to improve public health; and gathering and/or interpreting quantified information on scientific and public health issues and programs **OR**
- A combination of education & experience

- **GS-12:**

- Data Scientist: At least 1 year of specialized experience, equivalent to the GS-11 grade level in the Federal service, to include experience designing, conducting, and documenting statistical analyses of population, health, or administrative data related to health topics for publication **OR**
- Informatics: At least 1 year of specialized experience, equivalent to the GS-11 grade level in the Federal service, to include analyzing complex data sets/information using informatics, systems, and a variety of reporting tools to improve public health; and collaborating or consulting on the application of statistical techniques or methods relevant to public health

- **GS-13:**

- Data Scientist: At least 1 year of specialized experience, equivalent to the GS-12 grade level in the Federal service, to include experience reviewing statistical analyses using data science methods such as machine learning and data visualizations; and working with large structured and unstructured datasets **OR**
- Informatics: At least 1 year of specialized experience, equivalent to the GS-12 grade level in the Federal service, to include experience coordinating efforts to apply informatics standards, policies, and procedures to improve interoperability

between public health agencies and other healthcare delivery; and analyzing and reporting statistical data and collaborating or consulting on the application of statistical techniques or methods relevant to public health

- **GS-14:**

- **Data Scientist:** At least 1 year of specialized experience, equivalent to the GS-13 grade level in the Federal service, to include experience designing, conducting, and documenting statistical analyses of population, health, or administrative data related to health topics for publication; conducting data analysis and designing algorithms using artificial intelligence (e.g., machine learning) methods; reviewing statistical analyses using data science methods such as machine learning and data visualizations; and working with large structured and unstructured datasets **OR**
- **Informatics:** At least 1 year of specialized experience, equivalent to the GS-13 grade level in the Federal service, to include experience conducting data science work that requires application of data mining techniques, statistical analysis, and building high quality prediction systems integrated with public health surveillance systems.

- **GS-15:**

- **Data Scientist:** At least 1 year of specialized experience, equivalent to the GS-14 grade level in the Federal service, to include experience designing, conducting, and documenting statistical analyses of population, health, or administrative data related to health topics for publication; conducting data analysis and designing algorithms using artificial intelligence (e.g., machine learning) methods; and reviewing statistical analyses using data science methods such as machine learning and data visualizations, and in working with large structured and unstructured datasets **OR**
- **Informatics:** At least 1 year of specialized experience, equivalent to the GS-14 grade level in the Federal service, to include experience managing, planning, developing, coordinating, and evaluating public health surveillance programs and activities related to notifiable conditions and syndromic surveillance, data science and analytical activities

Experience refers to paid and unpaid experience, including volunteer work done through National Service programs (e.g., Peace Corps, AmeriCorps) and other organizations (e.g., professional; philanthropic; religious; spiritual; community, student, social). Volunteer work helps build critical competencies, knowledge, and skills and can provide valuable training and experience that translates directly to paid employment. You will receive credit for all qualifying experience, including volunteer experience.

Promotion potential: Promotion to the next grade level is at management's discretion and is based on your meeting qualifications and time-in-grade requirements, demonstrated ability to perform the higher-level duties, the continuing need for the higher-level duties, and administrative approval. Promotion to the next grade level is not guaranteed and no promise of promotion is implied.

Education

A copy of your transcripts or equivalent documentation is required for positions with an education requirement, or if you are qualifying based on education or a combination of education and experience. An official transcript will be required if you are selected.

A college or university degree generally must be from an accredited (or pre-accredited) college or university recognized by the U.S. Department of Education. For a list of schools which meet these criteria, please refer to [Department of Education Accreditation page](#).

FOREIGN EDUCATION: Education completed in foreign colleges or universities may be used to meet the requirements. You must show proof the education credentials have been deemed to be at least equivalent to that gained in conventional U.S. education program. It is your responsibility to provide such evidence when applying. For more information, visit <https://sites.ed.gov/international/recognition-of-foreign-qualifications/>.

Superior Academic Achievement is based on a bachelor's degree with one of the following:

1. *Class standing* -- Applicants must be in the upper third of the graduating class in the college, university, or major subdivision, such as the College of Liberal Arts or the School of Business Administration, based on completed courses.
2. *Grade-point average (G.P.A.)* -- Applicants must have a grade-point average of:
 - **3.0 or higher out of a possible 4.0 ("B" or better)** as recorded on their official transcript, or as computed based on 4 years of education, or as computed based on courses completed during the final 2 years of the curriculum; or
 - **3.5 or higher out of a possible 4.0 ("B+" or better)** based on the average of the required courses completed in the major field or the required courses in the major field completed during the final 2 years of the curriculum.
3. *Election to membership in a national scholastic honor society* -- Applicants can be considered eligible based on membership in one of the national scholastic honor societies recognized by the [Association of College Honor Societies](#). Membership in a freshman honor society cannot be used to meet the requirements of this provision.

Additional information

Telework: This position has been designated as telework eligible and:

- May include telework options and/or flexible work scheduling. These options may be requested once you have become an employee and you will be required to sign a Workplace Flexibilities Agreement that details remote or telework working conditions and expectations in accordance with the [HHS Workplace Flexibilities Policy](#).
- May be eligible for inclusion in the Bargaining Unit. The name of the union, local, and BU Codes will be provided upon selection.
- For more information visit: <https://www.usajobs.gov/Help/faq/job-announcement/telework/>

May be required to work other than normal duty hours, to include evenings, weekends and/or holidays.

The Federal government, as the largest employer in the Nation, can and should show the way towards achieving drug-free workplaces through programs designed to offer drug users a helping hand, and at the same time demonstrating to drug users and potential drug users that drugs will not be tolerated in the Federal workplace if declared a drug-testing position. The use of illegal drugs, on or off duty, by Federal employees is inconsistent not only with the law-abiding behavior expected of all citizens, but also with the special trust placed in such employees as servants of the public.

Incentives:

- [Recruitment and/or relocation incentives](#) may be authorized.
- [Annual Leave for non-federal service](#) may be authorized.
- [Student loan repayment incentive](#) may be authorized.
- Travel, transportation, and moving expenses may be paid.
- PCS Expenses may be authorized, subject to the terms of the [Joint Travel Regulation](#) (JTR).

Benefits

A career with the U.S. government provides employees with a comprehensive benefits package. As a federal employee, you and your family will have access to a range of benefits that are designed to make your federal career very rewarding. [Learn more about federal benefits](#).

[Review our benefits](#)

Eligibility for benefits depends on the type of position you hold and whether your position is full-time, part-time or

intermittent. Contact the hiring agency for more information on the specific benefits offered.

How You Will Be Evaluated

You will be evaluated for this job based on how well you meet the qualifications above.

Additional selections may be made for similar positions across the Department of Health and Human Services (HHS) within the local commuting area(s) of the location identified in this announcement. By applying, you agree to have your application shared with interested selecting official(s) at HHS. Clearance of CTAP/ICTAP will be applied for similar positions across HHS.

The utilization of shared certificates for additional selections within the same geographical area can be made from multiple Centers of the Center of Disease Control and Prevention (CDC) and Agency for Toxic Substance and Disease Registry (ATSDR).

This position is being filled through Direct Hire Authority for this occupation and is open to all US Citizens. Vacancies will be filled through OPM's Direct Hire Authority. Veterans' preference and traditional rating and ranking of applicants do not apply to positions filled under this announcement. All applicants who meet the minimum qualification requirements will be forwarded to the selecting official for consideration. Applications received as a result of job fairs, recruitment events, and emergency hiring mechanisms in support of this hiring initiative will also be accepted during the duration of the direct-hire authority.

For more information on OPM's authorization of Direct Hire Authority, please visit: <https://www.opm.gov/policy-data-oversight/hiring-information/direct-hire-authority/>

Once the application process is complete, a review of the resume and supporting documentation will be made and compared against your responses to the assessment questionnaire to determine if you are qualified for this job. If, after reviewing your resume and/or supporting documentation, a determination is made that you have inflated your qualifications and/or experience, you may lose consideration for this position. Please follow all instructions carefully. Errors or omissions may affect your eligibility.

Career Transition Assistance Program (CTAP)/Interagency Career Transition Assistance Program (ICTAP): CTAP/ICTAP eligibles must meet all of the requirements outlined in the qualification section of this announcement in order to be considered "well qualified."

Required Documents

To apply for this position, you MUST submit a complete Application Package which includes the following. Note: All documents must be in English.

1. Resume - Must reflect name, work schedule, hours worked per week, dates (month/year) of employment and duties performed.

Current/former Federal employee:

- Must reflect pay plan, series and grade, i.e., GS-0301-9.

Dos and Don'ts:

- www.usajobs.gov/Help/faq/application/documents/resume/what-to-include/
- www.usajobs.gov/Help/faq/application/documents/resume/what-to-leave-out/

Cover Letter is optional.

2. Transcripts (if applicable) - You may submit an unofficial transcript. An official transcript from an accredited educational institution is required if you are selected.

3. Career Transition Assistance Plan (CTAP)/ Interagency Career Transition Assistance Plan (ICTAP):

- Supporting documentation i.e., Reduction in Force (RIF) notice or Certificate of Expected Separation (CES), **AND** most recent:
 - Current annual performance appraisal
 - SF-50 (Notification of Personnel Action)

4. Current or Former Political Appointees: Agencies must seek prior approval from the Office of Personnel Management (OPM) before they can appoint a current or recent political appointee to a competitive or non-political excepted service position at any level under the provisions of title 5, United States Code. If you are currently, or have been within the last 5 years, a political Schedule A, Schedule C, or Non-career SES employee in the executive branch, you **MUST** disclose that to the Human Resources Office. Failure to disclose this information could result in disciplinary action including removal from Federal Service. Current or Former Political Appointees: Submit SF-50.

Failure to submit any of the above-mentioned required documents may result in loss of consideration due to an incomplete application package. It is your responsibility to ensure all required documents have been submitted.

For Résumé and Application Tips visit: <https://help.usajobs.gov/index.php/Tips>.

If you are relying on your education to meet qualification requirements:

Education must be accredited by an accrediting institution recognized by the U.S. Department of Education in order for it to be credited towards qualifications. Therefore, provide only the attendance and/or degrees from [schools accredited by accrediting institutions recognized by the U.S. Department of Education](#).

Failure to provide all of the required information as stated in this vacancy announcement may result in an ineligible rating or may affect the overall rating.

How to Apply

To apply for this position, you must complete the online application and submit the documentation specified in the Required Documents section.

A complete application package must be submitted by 11:59 PM (EST) on the closing date, 09/30/2024, of this announcement to receive consideration.

- To begin, click Apply to access the online application. You will need to be logged into your USAJOBS account to apply. If you do not have a USAJOBS account, you will need to create one before beginning the application.
- Follow the prompts to select your résumé and/or other supporting documents to be included with your application package. You will have the opportunity to upload additional documents to include in your application before it is submitted. Your uploaded documents may take several hours to clear the virus scan process.
- After acknowledging you have reviewed your application package, complete the Include Personal Information section as you deem appropriate and click to continue with the application process.
- You will be taken to the online application which you must complete in order to apply for the position. Complete the online application, verify the required documentation is included with your application package, and submit the application.

To verify the status of your application, log into your USAJOBS account (<https://my.usajobs.gov/Account/Login>), all of your applications will appear on the Welcome screen. The Application Status will appear along with the date your application was last updated. For information on what each Application Status means, visit: <https://www.usajobs.gov/Help/how-to/application/status/>.

If you are unable to apply online:

- **Applicants external to CDC** - Contact the CDC Helpdesk by phone (770) 488-1725 or email HRCS@CDC.GOV.
- **Applicants internal to CDC** - Contact the [OHR Service Desk](#).

Applicants are strongly encouraged to apply online. Applying online, through your USAJOBS account, will expedite the application process and allow you to check your application. If you utilize the Alternate Application method, your USAJOBS account will not display this application or status updates related to this application.

To view the questionnaire, click on the following link:
<https://apply.usastaffing.gov/ViewQuestionnaire/12428335>

Agency contact information



CDC HELPDESK

Phone

[\(770\) 488-1725](tel:(770)488-1725)

Email

HRCS@CDC.GOV

Address

Centers for Disease Control and Prevention-Direct
Hire Authority
1600 Clifton Rd
Atlanta, GA 30333
US

[Learn more about this agency.](#)

Next steps

Once the online questionnaire is received you will receive an acknowledgement email that your submission was successful. The most highly qualified candidates will be referred to the hiring manager for further consideration and possible interview. We expect to make a selection within 45 days of the closing date of this announcement. You will receive notice via email once this process is completed (generally 4-6 weeks).

HHS has a critical preparedness and response mission: HHS protects the American people from health threats, researches emerging diseases, and mobilizes public health programs with domestic and international partners. In support of this mission, HHS offers its employees the opportunity to volunteer to become Federal Civilian Detailees and contribute their unique skills through voluntary temporary assignments to humanitarian emergencies or Departmental priorities countering new and emerging health, safety, and security threats.

Fair & Transparent

The Federal hiring process is set up to be fair and transparent. Please read the following guidance.

[Criminal history inquiries](#)

[Financial suitability](#)

[Privacy Act](#)

[Selective Service](#)

[Equal Employment Opportunity \(EEO\) Policy](#)

[New employee probationary period](#)

[Reasonable accommodation policy](#)

[Signature and false statements](#)

Additional Locations

- 📍 Denver, CO
- 📍 Fort Collins, CO
- 📍 Washington, DC
- 📍 Miami, FL
- 📍 Atlanta, GA
- 📍 Honolulu, HI
- 📍 Chicago, IL
- 📍 Boston, MA
- 📍 Hyattsville, MD
- 📍 Detroit, MI
- 📍 Minneapolis, MN
- 📍 Triangle, NC
- 📍 Newark, NJ
- 📍 New York, NY
- 📍 Cincinnati, OH
- 📍 Philadelphia, PA
- 📍 Pittsburgh, PA
- 📍 San Juan, PR
- 📍 Dallas, TX
- 📍 El Paso, TX
- 📍 Houston, TX
- 📍 Seattle, WA
- 📍 Spokane, WA
- 📍 Morgantown, WV