

intro

UK Health Security Agency

Application for employment

Application for: Data Manager	Job ref: 919-CJ-305293-EXT
Closing date: 17-Dec-2024	Application submitted: 6-Dec-2024 00:56
Application ID: 171533582	Applicant: William Dornechele

Personal details

PersDetailsIntro
Answers given in this part of the form are to help the Recruitment Centre to manage your application.
If you have any difficulty completing this form please ask someone to help you.
We would like to take this opportunity to thank you for applying.

Personal details
Title
Mr
Forename
William
Middle name(s)
Surname
Dornechele
Address
The Outlook Accomodation
Floor 6
City / town
Bournemouth
County
Dorset
Country
United Kingdom
Postcode
BH1 2LZ
Email
williamdornechele@gmail.com
Work telephone
Mobile telephone
07442803292
Home telephone
UK National Insurance number
TJ512456A
Preferred employment type
Full time

Relationships
If you are related to a director, or have a relationship with a director or employee of an appointing organisation, please state the relationship:
Not applicable

Rehabilitation of Offenders Act 1974 (as amended)
The Rehabilitation of Offenders Act 1974 helps rehabilitated ex-offenders back into work by allowing them not to declare criminal convictions after the rehabilitation period has elapsed and the convictions become 'spent'. During the rehabilitation period, convictions are referred to as 'unspent' convictions and must be declared to employers.
The organisation aims to promote equality of opportunity and is committed to treating all applicants equally and fairly based on their skills, experience and ability to fulfil the duties of the role being applied for.
Suitable applicants will not be refused positions because of criminal record information of other information declared, where it has no bearing on the role (for which you are applying) and no risks have been identified against the duties you would be expected to perform as part of that role.
During the rehabilitation period you are required to declare current 'unspent' criminal convictions or cautions (including reprimands and final warnings).
You are not legally required to provide any information about criminal offences that have become spent. Certain criminal offences can be regarded as spent after a specified rehabilitation period as outlined by the Rehabilitation of Offenders Act 1974.
Answering 'yes' to the question below will not necessarily bar you from appointment. This will depend on the information you provide and the position you are applying for.

Do you have any UNSPENT convictions as outlined in the Rehabilitation of Offenders Act 1974?
This includes any unspent convictions that may have been issued in any other country, where it would be an equivalent offence in England and Wales.
It also includes all unspent convictions or Summary Hearings that have been issued under military law while serving in the Armed Forces in the UK or any other country, where it would be an equivalent offence in England and Wales.
You are not required to disclose any information in relation to convictions that have become SPENT. In these circumstances you should select NO to this question.
No
You have two options on how to disclose this information.

You can disclose your record separately together with any statement detailing your unspent conviction or Summary Hearing.

A member of the recruitment team will contact you and advise what steps you need to take to submit your details separately.

Please provide details of the conviction or Summary Hearing including the date and sentence administered in the space below
Do you have any UNSPENT cautions, reprimands or final warnings as outlined in the Rehabilitation of Offenders Act 1974?

This includes any unspent cautions, reprimands or final warnings that may have been issued in any other country, where it would be an equivalent offence in England and Wales.

It also includes all unspent cautions that have been issued under military law while serving in the Armed Forces in the UK or any other country, where it would be an equivalent offence in England and Wales.

You are not required to disclose any information in relation to cautions, reprimands or final warnings that have become SPENT. In these circumstances you should select NO to this question.

No

You have two options on how to disclose this information.

You can disclose your record separately together with any statement detailing your caution, reprimand or final warning.

A member of the recruitment team will contact you and advise what steps you need to take to submit your details separately.

Please provide details of the cautions, reprimands or final warnings including the date and sentence administered in the space below

Pre-screening: Internal/external

Before being given access to the online application form, the applicant was asked the following.

Are you currently an employee of UK Health Security Agency?

No

Pre-screening: Immigration

Before being given access to the online application form, the applicant was asked the following.

Choose your immigration status

I have a 'Student visa' and I am applying for a full time position

If you wish to provide any additional information regarding your right to work/immigration status, please do so here

I have applied for a graduate visa.

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Application questions

AppQuestionsIntro
Details entered in this part of the form will be made available to the shortlisting panel. Please make sure that you have read the job description and person specification before completing the application form, and ensure that your answers clearly and honestly demonstrate how your skills and experience are relevant to the post for which you are applying.

Education & professional qualifications
All the relevant qualifications. Please also indicate subjects currently being studied. All qualifications disclosed will be subject to a satisfactory check. Up to 11 qualifications can be entered here.

Education & Professional Qualifications

Education & Professional Qualifications

Subject/Qualification	Place of study	Grade/Result	Year obtained
MSc Information Technology	Bournemouth, United Kingdom	75.67/Distinction	2024
BSc Public Health	University of Health and Allied Sciences, Ghana	3.12	2019

Relevant Training Courses Attended
Please provide details regarding training courses that you have attended or currently undertaking together with the date completed or to be completed by. Up to 7 training course can be entered here.

Training

Training

Course title	Training provider	Duration	Year completed
Information Technology	Bournemouth University	1 year	2024
Good Clinical Practice	National Institute on Drug Abuse (NIDA) Center for Clinical Trials (CCTN) Clinical Trials Network (CTN)	1 week	2024
SQL Developer	Coursera	1 month	2023
Data + Design Developer	Leaders of Africa Institute	4 months	2023
Microsoft Power BI	Coursera	1 month	2023
Machine Learning with Python	Coursera	3 months	2024
Geographic Information Systems	University of Health and Allied Sciences	1 year	2018

Membership of Professional Bodies
Please provide details regarding any relevant professional registrations or memberships. This information will be subject to a satisfactory check.

Please indicate your professional registration status
I do not have the relevant UK professional registration
Professional body
The British Computer Society

Please provide details below

Active member, engaged in maintaining high standards of professional conduct, particularly in data management and information technology.
Regularly participate in BCS events, webinars, and professional development activities to stay updated on best practices and advancements in the field.

Membership / Registration number

995143780

Expiry / renewal date

20/02/2025

NHS Service**Start date of continuous NHS service (if applicable)****Months since most recent employment ended (if applicable)****Employer/activity history**

Please record below the details of your full employment history beginning with your current or most recent first. Up to 10 previous employments can be entered here. If required, please provide additional information regarding your employment history within the 'Supporting Information' section.

| Other employers



Other employers**Employer name**

Navrongo Health Research Centre

Employer address

Navrongo Health Research Centre
P. O. Box 114,
Navrongo, Upper East Region

Type of business

Navrongo Health Research Centre

Reporting to (job title)

Medical Statistician

Telephone

+233204851561

Your job title

Data Manager and Analyst

Start date

September 2019

End date

August 2023

Grade**Salary****Period of notice**

3 months

Reason for leaving (if applicable)

I resigned as Data Manager at Navrongo Health Research Centre to pursue an MSc in IT in the UK, aiming to enhance my skills in data management and analysis. This decision supports my goal to advance my career and contribute meaningfully to data-driven roles in healthcare and technology sectors.

Brief description of your duties & responsibilities

1. Utilised SQL to manage and extract large health datasets, preparing data for in-depth analysis using R, STATA, and Python tools. These analyses included predictive modelling, regression analysis, and trend identification to inform strategic decision-making in epidemiological studies.
2. Developed and maintained a longitudinal relational database using SQL for a health and demographic surveillance system (HDSS) and ensured data integrity through robust SQL-based extraction, cleaning, and preprocessing techniques, enabling reliable downstream analysis.
3. Conducted in-depth analysis of pneumococcal disease and meningitis datasets using a combination of SQL, STATA, and R, identifying trends and correlations such as demographic factors influencing disease prevalence. These insights supported targeted interventions.
4. Designed SQL workflows to automate routine reporting processes and prepared clean datasets for further statistical analysis in Python and STATA, reducing manual errors and improving efficiency.
5. Created real-time monitoring tools and dashboards for meningitis, pneumonia, and sickle cell studies using SQL and integrated visualisation tools such as Power BI, enabling the study team to track progress and make timely decisions.
6. I applied STATA and R for advanced statistical techniques, including regression analysis and predictive modelling, to identify patterns and optimise workflows. I also used Python to automate complex analytical processes and streamline reporting pipelines.
7. Produced dashboards, reports, and presentations by integrating SQL outputs with advanced analytics from R and STATA, effectively communicating critical insights to project teams and stakeholders.
8. Led health and demographic surveillance projects, using SQL for data management and integration with tools such as REDCap and Power BI to enhance data quality and operational efficiency.
9. I used ArcGIS and QGIS for spatial data analysis and visualisation, identifying malaria and rabies hotspots and mapping under-five and maternal mortality trends to inform geographically targeted interventions.
10. Combined SQL and STATA to perform advanced data quality checks and validation workflows, ensuring accuracy and consistency in all datasets data for analysis.

Other employers

Employer name
McDonald's Bennett Restaurant Ltd

Employer address
St Pauls Road
Bournemouth
BH8 8DL

Type of business
Restaurant

Reporting to (job title)
Business Manager

Telephone
01202 299026

Your job title
Customer Care

Start date
November 2023

End date

Grade

Salary

Period of notice
2 weeks

Reason for leaving (if applicable)
I seek a role aligning with my IT and Public Health background and experience in data management and analysis. While my current customer care role has honed my communication skills, I am eager to apply my technical expertise to support NHS data initiatives that improve patient outcomes.

Brief description of your duties & responsibilities
1. Demonstrated efficiency in assisting customers with self-service kiosks and mobile apps, swiftly resolving technical issues related to orders and payments to ensure a smooth experience.
2. Proactively addressed customer complaints, such as order errors or delays, while maintaining professionalism and providing practical solutions by reassuring customers of our commitment to service excellence.
3. Showcased strong teamwork by collaborating with team members during peak hours, prioritising tasks like order preparation and supply restocking to meet customer demands efficiently.
4. Educated customers about the benefits of digital tools, including loyalty programs and online ordering, to enhance convenience.
5. Gathered customer feedback on their experiences and reported recurring issues, such as kiosk malfunctions, to management for improvements.

Gaps in employment

If you have any gaps within your employment history, please state the reasons for the gaps below.
No gaps

Supporting information

Supporting Information Fields marked with an asterisk are mandatory

In this section you need to demonstrate that you have read the published person specification and how you meet the essential and (where relevant) desirable criteria for this particular post, if this has not been fully covered in the previous sections.

Please include your reasons for applying and take the opportunity to highlight your particular talents and strengths, (what you feel you can personally offer - what is unique to you - what sets you apart from your peers).

Please DO NOT include personal details or duplicate information already provided elsewhere in your application.

Supporting information
I am excited to apply for the UK Health Security Agency Data Manager role. With a robust data management and analysis background, particularly in public health and vaccine studies, I am confident I meet the essential and desirable criteria outlined in the person specification and contribute effectively to your dynamic team.

In my previous roles, I managed and analysed big datasets from pneumococcal and malaria vaccine studies, including longitudinal health and demographic surveillance systems (HDSS). Using SQL, STATA, R, and Python, I designed and implemented workflows that ensured data collected from multiple sources' integrity, accuracy, and completeness. For example, during the malaria RTS,S vaccine study, I developed a database structure

that facilitated the seamless integration of multiple data streams, enabling efficient data validation and generating actionable insights to inform vaccine effectiveness and safety evaluations. This experience aligns with managing vaccine uptake surveillance systems and ensuring high-quality data for decision-making.

I have extensive experience automating data processes to enhance efficiency and accuracy. In a recent project on HDSS, including meningitis and sickle cell surveillance, I automated the generation of dashboards and reports using Power BI, significantly reducing the time required to prepare outputs for stakeholders. These dashboards were used to monitor the incidence and prevalence of health outcomes (such as meningitis, pneumonia, maternal and child health outcomes) and vaccination coverage, offering real-time program performance and compliance insights. Similarly, my ability to automate routine outputs for inclusion in national and international reports will directly support the UKHSA's goals for efficient data reporting.

My strong data science programming skills, particularly in SQL, R, STATA and Python, have been instrumental in analysing complex datasets and delivering high-quality outputs. For instance, I used R and STATA to perform predictive analytics during the Pneumococcal epidemiological study and Malaria RTSS vaccine clinical trial, identifying risk factors that could influence vaccine efficacy. This work required a deep understanding of data structures, statistical methodologies, and public health objectives, which I will bring to this role's development and reporting tasks.

I also have significant experience managing multiple datasets and addressing data quality issues. I led data quality audits for an HDSS (Health and Demographic Surveillance System) database, identifying inconsistencies and implementing validation checks that improved data accuracy by 30%. My expertise in ensuring the reliability of datasets aligns with the role's requirement for high data quality standards and the ability to perform data cleaning and validation tasks.

Furthermore, collaboration has been a cornerstone of my professional journey. I have worked closely with multidisciplinary teams, including epidemiologists, clinicians, and IT specialists, to ensure that data outputs meet their needs. For instance, during a sickle cell longitudinal study, I partnered with clinical teams to provide data visualisations that informed patient care strategies. My ability to build effective relationships with stakeholders within and outside the organisation will contribute to fostering productive partnerships with NHS England and other agencies in this role.

I am proficient in statistical computing environments such as STATA, R, SPSS, and Python. I have used these tools to develop predictive models, conduct statistical analyses, and generate comprehensive reports tailored to diverse audiences. For example, during a meningitis surveillance project, I employed R to develop interactive dashboards highlighting outbreak trends, enabling rapid response from healthcare teams. This experience reflects my capability to turn complex datasets into actionable insights, a critical aspect of this position.

My academic foundation in Public Health, including a master's in Information Technology, has equipped me with a strong understanding of database management and analytical techniques. Combined with my hands-on experience in public health data analysis, this provides me with a unique skill set that is both technical and domain-specific. I am also deeply committed to continuous learning and professional development. For instance, I recently completed training in advanced SQL scripting and data visualisation, ensuring my skills remain current and relevant.

My ability to bridge the gap between data science and public health impact sets me apart. I have a proven track record of delivering high-quality outputs under tight deadlines, even in multifaceted and dynamic environments. My meticulous attention to detail, strong organisational skills, and ability to prioritise competing tasks ensure that I consistently meet project objectives while maintaining data accuracy and quality.

I am drawn to this role because it focuses on advancing public health through data-driven insights and decision-making. Contributing to vaccine surveillance systems and supporting critical public health initiatives aligns with my professional values and aspirations. I am particularly inspired by UKHSA's commitment to leveraging data to improve health outcomes nationally and internationally.

In summary, my experience managing and analysing vaccine data, proficiency in data science programming, commitment to data quality, and ability to collaborate across disciplines make me an ideal candidate for this role. I am eager to bring my expertise and passion for public health data management to the UK Health Security Agency and contribute meaningfully to its mission.

Thank you for considering my application.

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References

References

If you are successful, prior to appointment, **we will take up as many references as needed to cover all activities, including periods of employment and full time education, that you have undertaken over the past three years.** Any offer will be subject to these being satisfactory. Please ensure that you provide full contact details for your Employer/Line Managers or Course Tutors for each activity. Please include their **work email address** where possible to avoid any unnecessary delays.

If during the last three years you have any periods in which you have not been in either employment or full-time education please provide details of someone who can provide a character reference for you to cover this period. Character references should be provided by a person of standing in the community such as a Teacher, Health Care Professional (i.e. Doctor, Physiotherapist, Registered Nurse), Minister of Religion, Police Officer or Solicitor. **Character references should only be used in EXCEPTIONAL circumstances to cover periods of time when you have not been in either employment or education.**

Please use the "Add another" button below to add as many referees as required to meet the above requirements. Periods that referees cover may overlap but there should not be any gaps over the past three years.

References

References

Referee's title
Mr

Referee's first name(s)
Emmanuel

Referee's surname
Yidana Ayamba

Referee's organisation name
Navrongo Health Research Centre

Job title
Medical Statistician

How do they know you?
Employer / Line Manager

Address 1
Box 114

Address 2
Navrongo Health Research Centre

Address 3

City / Town
Navrongo

County / State
Upper East

Postcode
00447777

Country
Ghana

Telephone no.

Mobile no.
+233204851561

Email address
emmanuel.ayamba@navrongo-hrc.org

Can the referee be approached prior to the interview?
Yes

Period this reference covers from:

September 2019

Period this reference covers to:

August 2023

What name will the referee know you by if different from your current name?**Why has your name changed?**

References**Referee's title**

Professor

Referee's first name(s)

Andy

Referee's surname

Phippen

Referee's organisation name

Bournemouth University

Job title

Professor Of IT Ethics And Digital Right

How do they know you?

Course Tutor / School or College Principal

Address 1

Bournemouth University, Poole House

Address 2

Talbot Campus

Address 3

Fern Barrow

City / Town

Poole

County / State**Postcode**

BH12 5BB

Country

United Kingdom

Telephone no.**Mobile no.****Email address**

aphippen1@bournemouth.ac.uk

Can the referee be approached prior to the interview?

Yes

Period this reference covers from:

September 2023

Period this reference covers to:

September 2024

What name will the referee know you by if different from your current name?

Why has your name changed?

References

Referee's title
Mr

Referee's first name(s)
Jawad

Referee's surname
Abidahou

Referee's organisation name
McDonald's Bennett Restaurant Ltd

Job title
Business Manager

How do they know you?
Employer / Line Manager

Address 1
McDonald's Bennett Restaurant Ltd

Address 2
St. Pauls Road

Address 3

City / Town
Bournemouth

County / State
Dorset

Postcode
BH8 8DL

Country
United Kingdom

Telephone no.
01202 299026

Mobile no.

Email address
01304@uk.mcd.com

Can the referee be approached prior to the interview?
Yes

Period this reference covers from:
November 2023

Period this reference covers to:
December 2024

What name will the referee know you by if different from your current name?

Why has your name changed?

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Equal opportunities

Equal opportunities

eqopsintro

NHS organisations recognise the benefits of having a diverse workforce and therefore welcome applications from all sections of the community. In addition to this, under the provisions of the Equality Act 2010, all NHS organisations are required to demonstrate that their recruitment processes are fair and that they are not discriminating against or disadvantaging anyone because of their age, disability, gender reassignment status, marriage or civil partnership status, pregnancy or maternity, race, religion or belief, sex or sexual orientation. Therefore a series of questions need to be raised in order to ascertain who is applying for each position and to ensure that no one is being unfairly discriminated against or disadvantaged.

This section of the application form will be detached from your application form and will not be used as part of the selection process nor will it be seen by anybody who is interviewing you. The information collected is only used for monitoring purposes in an anonymised format to assist the organisation in analysing the profile and make up of individuals who apply, are shortlisted for and appointed to each vacancy. In this way, they can check that they are complying with the Equality Act 2010.

The Equality Act 2010 protects people against discrimination on the grounds of:

- their age and sex.
- their race which includes colour, nationality, ethnic or national origin.
- their religion or belief, including a lack of any belief.
- their sexual orientation, be it bisexual, gay, heterosexual and lesbian.

The Equality Act 2010 also protects people who are married or in a civil partnership.

Equality and Diversity Monitoring

Please state your date of birth

22/05/1994

Please indicate your gender

Male

Please indicate the option which best describes your marital status:

Single

Please indicate your ethnic origin

BLACK or BLACK BRITISH - African

Which of the following options best describes how you think of yourself?

Heterosexual or Straight

Please indicate your religion or belief

Christianity

Disability

The Equality Act 2010 protects disabled people - including those with long term health conditions, learning disabilities and so called "hidden" disabilities such as dyslexia. If you tell us that you have a disability we can make reasonable adjustments to ensure that any selection processes - including the interview - are fair and equitable.

According to the definition of disability do you consider yourself to have a disability?

No

Please identify the category which applies to you or other type of disability. People may experience more than one type of impairment, in which case you may indicate more than one. If none of the categories apply, please mark 'Other'.

If you have a disability, do you wish to be considered under the Guaranteed Interview Scheme if you meet the minimum criteria as specified in the Personal Specification?

No

Reasonable adjustments will be made available should you be invited to interview.

How did you learn of this vacancy?

Please state where you first saw this post advertised

NHS Jobs - nhsjobs.com or nhsjobs.net

Declaration

The information in this application form is true and complete. I agree that any deliberate omission, falsification or misrepresentation in the application form will be grounds for rejecting this application or subsequent dismissal if employed by the organisation. Where applicable, I consent that the organisation can seek clarification regarding professional registration details.

I agree to the above declaration

Yes

Next Steps

Once you submit the form your application will be available to the Employer. However, you will be able to update your "Personal Information" should any of your contact details change.

All your application forms (submitted or not) can be viewed under "Applications" when you are signed in.

Privacy notice

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Privacy notice

Privacy notice
Your data is being collected by UK Health Security Agency, whose privacy notice can be found here.

The data controller for this information is UK Health Security Agency. This application tracking system is provided by Civica UK Ltd (<https://www.civica.com/en-gb/product-pages/trac/>) as a data processor.

To make an enquiry, a request for your personal information held as part of this process, or to arrange for any mistakes to be corrected, you may contact either the team who are handling your application or the Data Protection Officer (dataprotectionofficer@phe.gov.uk).

[UK Health Security Agency - GOV.UK \(www.gov.uk\)](#)