

# Catherine C. Madu

*Highly analytical professional with rich experience in utilising academic & research knowledge to solve real world problems.*

## OBJECTIVE

Dedicated and results-oriented Biomedical Scientist with a strong foundation in research, laboratory management, and data analysis. Eager to leverage my analytical skills, attention to detail, and passion for problem-solving to transition into the dynamic field of Information Technology (IT). Seeking an IT position where my scientific background and adaptability will contribute to innovative solutions and project success.

## PROFESSIONAL SUMMARY

A forward-thinking Biomedical Scientist with 7 years of experience in the healthcare and research sectors. Proficient in experimental design, data collection, and statistical analysis, I have successfully contributed to multiple research projects, published articles in peer-reviewed journals, and managed laboratory operations efficiently. My expertise in data-driven decision-making, coupled with my enthusiasm for learning and technology, drives my desire to pivot into the IT industry.

## PROFESSIONAL DEVELOPMENT

### Online Courses:

- **DevOps for Beginners (Udemy) ongoing**

In this course I am being introduced to the basic concepts of DevOps and the tools involved.

- **Python (Code First Girls)**

This 8 weeks (2 hours per week) course on Python organised by Code First Girls served as an introduction to Python Programming language.

- **Manual Software Testing (Vatelio Outsulting)**

This was a four week (2 hours a week) which I enrolled for. I gathered from it the basic idea of Manual Software Testing, Types of testing, and other concepts.

- **Web Dev. & Design (The Coder's Guild)**

This 12 week course organised by the coders guild was an extensive training on basic web development frameworks like HTML, CSS, & JavaScript. We were also introduced to Variables, Data types, Git & GitHub.

## CONTACT DETAILS

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## SKILLS

- Python
- Web Dev & Design
  - HTML, CSS, JavaScript
  - Database (mySQL)
- Git and GitHub
- Basics of DevOps and DevOps Tools.
- Amazon Cloud (AWS)
- VS Code
- Laboratory Management
- Data Analysis and Interpretation
- Experimental Design
- Research Methodologies
- Technical Writing and Documentation
- Scientific Communication
- Problem-Solving
- Attention to Detail
- Project Management
- Adaptability

## LANGUAGES

- English
- Igbo
- Currently learning French

## EXPERIENCE

### **Airedale NHS Foundation Trust, United Kingdom.** **Biomedical Scientist.**

May 2022 - PRESENT

Work as the PCR Team Lead overseeing all daily tasks in the PCR Lab. Offer considerable instruction on the usage of the Hologic Panther for the Covid-19 testing and Chlamydia trachomatis (CT)/Neisseria gonorrhoeae (GC). Routinely test for Covid, RSV, and the flu with Cepheid GeneXpert devices. Routinely carry out Respiratory and Enteric Viruses assay using AusDiagnostics analyser. Manage all aspects of organising, interpreting, and reading MRSA and MSSA screening swabs. Validate and verify PCR data for respiratory, enteric bacteria, and viruses. Monitor the environment every week.

- Gained a lot about utilising PCR to process enteric bacteria, parasites, and viruses.
- Trained in the use of MALDI-Tof and MicroScan for assessing bacterial sensitivity and identification.

### **Department of Health and Social Care, United Kingdom.** **Biomedical Scientist**

July 2021 - March 2022

Supervised rapid result interpretation, validation, and authorisation. Executed Standard Operating procedures (SOPs) development and enforcement; other quality control elements; validation and verification of mobile testing units. Trained and oversaw lab personnel who processed samples for COVID testing utilising RNA-LAMP in the mobile testing units. Trained other colleagues on quality control checks, result interpretation, and approval/sending off processes. Conducted a variety of quality management system training sessions.

- Recognised as a good team player who was responsible for providing feedbacks and progress reports to the Team Lead.

### **NHS Trust, Chilworth Laboratory. Southampton.** **Biomedical Scientist**

January 2021 - March 2021

Created and enforced Standard Operating Procedures (SOPs) and other quality elements. Engaged in the education of newly hired biomedical scientists on the procedure of quality control checks, result interpretation, and validation.

- Gained practical knowledge of DNA extraction using King Fischer automatic DNA extractor.

## REFERENCE

Available upon request.

I am excited to bring my analytical abilities, research skills, and adaptability to a new challenge in the IT industry. I am confident that my background in biomedical science, coupled with my passion for technology, will make me a valuable asset to any IT team. Thank you for considering my application.

- Maintained control over the technicians, while processing samples.

**National Institute for Pharmaceutical Research and Development. Nigeria.**  
**Biomedical Scientist**

July 2018 – August 2019

Carried out various laboratory tasks and oversaw all haematological requests. Supported the implementation of Standard Operating Procedures (SOPs) and other quality control measures. Supported students on Industrial Training and laboratory assignments.

**Enugu State University, Teaching Hospital. Nigeria.**  
**Intern**

June 2017 – July 2018

- Worked as an intern in the Hospital Laboratory and was introduced to the different sections of the laboratory.
- Gained confidence with handling patient samples and interpretation of patient results.
- Developed good rapport and communication skills with colleagues.

## **EDUCATION**

**University of Chester, United Kingdom.**  
**Msc. Biomedical Science**

October 2020 – October 2021.

**Madonna University, Nigeria.**  
**Bsc. Medical Laboratory Science**

October 2010 – August 2015

## **PROJECTS**

### **Personal Portfolio Page**

Putting together relevant skills gathered from Web Dev. & Design Course organised by the Coder's Guild. I was able to create a single page profile using GitHub pages.

This Profile page was created using HTML, CSS, & JAVASCRIPT frameworks.

VS code was used as my Integrated Development Environment.

GitHub was used as my Source Code Management system.

[Link to my GitHub Pages Profile](#)

I experienced some challenges while carrying out this project and I also learnt a lot working on it.