

TAOFIK AHMED SULEIMAN

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OBJECTIVE

To obtain a PhD in in Biomedical Engineering and achieve professional proficiency, while enhancing independent research, and teaching/administrative skills.

Research Interest: Orthopedic and Tissue regeneration, Soft tissue, Biomaterials, Cancer and Stem cell biology, Drug discovery

Technical Skills: Medical device repair, Cell culture, Microscopy, Python, Bioinformatics, MATLAB, MS office tools, Data analysis

EDUCATION

University of Ilorin (UNILORIN), Kwara State, Nigeria

Oct. 2015 – Aug. 2021

BEng in Biomedical Engineering (First Class Honours - 4.68/5.00)

Relevant Courses (Grades):

Molecular and Cellular Biology (A), Nanomedicine (A), Biomaterials (A), Medical Imaging System (A), Biomechanics (A), General Anatomy (A), Human Physiology (A), Engineering Mathematics (A), Electronics (A), and Thermodynamics (A)

Kogi State Polytechnics (KSP), Lokoja, Kogi State, Nigeria

Dec. 2013 - Sept. 2015

OND in Science Laboratory Technology (CGPA: 3.35/4.00, Rank: 1 out of 226 students)

Relevant Courses (Grades):

Inorganic Chemistry (A), Physical Chemistry (A), Organic Chemistry (AB), Biochemistry (AB), Microbiology (AB), Genetics (AB), Electricity and Magnetism (AB), Optics and Waves (A), Calculus (AB), and Algebraic for Science (A)

PUBLICATIONS AND PRESENTATIONS

- Pan African Research Group, “Biotechnological models for enhanced drug discovery,” **Ongoing research**
- Y. K. Ahmed, **T. A. Suleiman**, A. M. Ibrahim, N. A. Danmusa, and H. D. Yusuff, “Inexpensive collapsible vibration plate for whole-body exercise and physiotherapy in low resource settings,” [Link to abstract](#)
- Y. K. Ahmed, N. A. Danmusa, K. A. Salahudeen, **T. A. Suleiman**, and H. D. Yusuff, “Design and development of an eye and mobile application controlled wheelchair for totally and partially paralyzed patients,” [Link to abstract](#)
- National Association of Biomedical Engineering Students 2021 Workshop, “*Diving Into Technology Hotspots: The Role of Data Science in Bioengineering*”, By **T. A. Suleiman**, Department of Biomedical Engineering, University of Ilorin, April 23rd, 2021
- Nanomedicine (BME505) Presentation 2020, “*Applications of Micelles and Dendrimers in Drug Delivery*”, By **T. A. Suleiman**, Department of Biomedical Engineering, University of Ilorin, Jan. 8th, 2020.

RESEARCH AND TEACHING EXPERIENCE

- **Research Assistant:** Pan African Research Group, PARG **April 2021 - Present**
 - Wrote literature review on quality and design implementation in biotechnological drug discovery
 - Wrote literature review on proteins and genes as targets for drug discovery
- **Undergraduate Research Assistant:** Biomedical Engineering, UNILORIN **Oct. 2019 - July 2021**
 - Assisted academic staff in the Department of Biomedical Engineering in research and administrative work
 - Wrote research proposals, analyzed project data, and reported findings.

Achievement: As the lead investigator, I led a team in designing the following:

 - Inexpensive collapsible vibration plate for whole-body exercise and physiotherapy in low resource settings
 - An eye and mobile application controlled wheelchair for totally and partially paralyzed patients
- **High School Teacher:** New Hope College, Ilorin, Nigeria **Nov. 2020 - July 2021**
 - Taught Physics and Further Mathematics to senior classes 1, 2 & 3.
 - Provided assessments and graded students on the course taught and practical sessions
- **Head Tutor:** Department of Biomedical Engineering, University of Ilorin, Ilorin **Nov. 2017 – Feb. 2020**
 - Organized and conducted tutorial classes on core biomedical engineering courses across all levels.
 - Assisted in compiling past questions and simplifying complex courses during tutorial classes for easy understanding.

INDUSTRIAL EXPERIENCE

- **Graduate Intern:** Biomedical Department, Nisa Premier Hospital, Abuja, Nigeria **Sept. 2021 - Present**

Key Responsibilities and Trainings:

 - Supporting patient diagnosis and treatment by installing, calibrating and repairing medical devices

- Collecting, examining, and testing tissue samples to better understand diseases pathophysiology
- **Student Intern:** Nisa Premier Hospital, Abuja, Nigeria **Mar. 2019 - Dec. 2019**
 - Repaired medical devices at the biomedical department
 - Maintained medical imaging equipment and installation such as Ultrasound, Digital X-rays and MRI
- **Student Intern:** University of Ilorin Teaching Hospital (UTH), Kwara State, Nigeria **Aug. 2018 - Dec. 2018**
 - Installed, calibrated, repaired and tested medical equipment at the biomedical workshop
- **Industrial Training:** Sauki Medical Diagnostics, Kogi State, Nigeria **Dec. 2014 - Feb. 2015**
 - Assisted in identifying microorganisms, such as bacteria, that are found in blood or skin
 - Assisted in performing cell culture and sensitivity testing for effective treatment of various diseases.
 - Examined patients for malaria, HIV antigens, and Typhoid fever using rapid test kits

LEADERSHIP RESPONSIBILITIES / EXPERIENCES

• Class Representative: Biomedical Engineering Students, Class of 2021	2017-2021
• Vice President: Dareword Students Association (DSA), UNILORIN	2019-2021
• President: National Association of Epira Students (NAES), UNILORIN Chapter	2019-2021
• Team Leader: Undergraduate Research Work, Department of Biomedical Engineering	2019-2021
• Academic Excellence/Technical Chair: National Society of Black Engineers (NSBE), UNILORIN	2017-2019
• Secretary-General, National Association of Biomedical Engineering Students (NABMES), UNILORIN	2017-2018

AWARDS / HONOURS

• University of Ilorin Undergraduate Scholarship Award for the Best Student in Biomedical Engineering	2016-2021
• First Class Honours Award in Biomedical Engineering, University of Ilorin	2021
• Academic Excellence and Altruistic Leadership Award, NAES UNILORIN Chapter	2021
• Best Presenter and Researcher Award, Academic Elite of Epiraland (AEE) Annual Competition	2019
• Academic Excellence Award, NSBE UNILORIN	2018
• Best Graduating Student in Science Laboratory Technology, KSP	2015

PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

Introduction to the Biology of Cancer, Johns Hopkins University, Coursera	2021
• Biologic hallmarks of cancer, molecular biology, risk factors, Treatment options, imaging and staging techniques	
Fundamentals of Immunology, Rice University, Coursera	2021
• Innate & adaptive immunity; B & T cells, Antigens, antibodies, immunoglobulin receptors, myeloid & lymphoid cells	
Programming for Everybody (Python), University of Michigan, Coursera	2020
• Introduction to Python, data type, variables, Python tools such as functions and loops	
Bioinformatics for Beginners, University of California, San Diego, Coursera	2020
• Bioinformatics, Bioinformatics algorithms, Biology and Python Programming	

VOLUNTEERING AND COMMUNITY SERVICE

• Member and Media team volunteer for OneAfricanChild Foundation	2021
• Volunteer and member of Young African Leaders Initiatives, YALI Network	2021
• Logistic team, Oladepo Timilehin Foundation - Empowering youth and community	2021
• DSA Mentor for newly admitted undergraduate students of the University of Ilorin	2017-2021
• Participated in the NSBE Impact 50 lives community outreach, Kwara, Nigeria	2019

PROFESSIONAL MEMBERSHIP / AFFILIATIONS

• Nigerian Society of Engineers (NSE)	2021
• American Society of Quality (ASQ)	2020
• National Society of Black Engineers (NSBE)	2017
• National Association of Biomedical Engineering Students (NABMES), UNILORIN	2015-2021