

# Ikenna Onyekwelu



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Gender Male |Nationality Nigerian

## Career Objectives

To be a seasoned and highly competent academic with great intellectual resources required for research and teaching.

## Personality

I am very confident and succeed in performing complex tasks and process within tight schedule, and occasional work stress does not bother me. Task where I have an opportunity to solve problems bring the best out of me.

## Education and Training

2018- 2019

University of Portsmouth, UK  
MSc in Environmental Geology and Contamination (in view)

2018-2018

University of Valladolid, Spain  
Academic Staff Mobility Programme  
Higher Technical School of Agricultural Engineering, Palencia

2010-2015

University of Nigeria, Nsukka,  
Bachelor of Engineering,  
Agricultural and Bioresources Engineering,  
(Soil and Water Resources Engineering option),  
First Class Honours (4.55/5.0)

2010

West African Senior School Certificate Examination

2003-2009

Urban Model Secondary School, Abakaliki, Ebonyi State, Nigeria

## Work and Research Experience

June 2017 – Present

Graduate Research Assistant,  
Soil and Water Resources Engineering Laboratory,  
Department of Agricultural and Bioresources Engineering,  
University of Nigeria.

- As part of my duty, I assist students in their projects research and also a member of Eco-Hydrological Research Unit of the lab.

June 2017- Present

Graduate Teaching Assistant,  
Department of Agricultural and Bioresources Engineering,  
University of Nigeria.

- Whilst undertaking research, I am also a teaching assistant in courses such as Applied Soil Mechanics, Environmental Hydrology, Design of Irrigation Systems, Principles of Irrigation and Drainage Engineering, Aquaculture Engineering.

## Research Interest

Bioremediation Processes, Hydrologic Modelling, Hydrogeology and Groundwater, Irrigation and Drainage Engineering, Water Quality Assessment and Environmental Chemistry, Pollution Mitigation, Forest Hydrology.

## Other Experience

May 2016- May 2017

**Tutor,  
His Lordship Private Schools, Ogun State, Nigeria**

- Responsible for the general teaching of Agricultural science and Mathematics.

August 2015- May 2016

**Tutor,  
Classic Tutorials, Ebonyi State, Nigeria**

- Responsible for the general teaching of Physics, Chemistry and Mathematics.

## Internship

June 2014- Nov 2014

**Quality Control Intern  
Dormanlong Engineering Limited, Lagos State Nigeria**

- Responsible for issuing welding consumables to welders.
- Developing weld logs and maps.
- Recording keeping of consumables.
- Site inspection of weld joints.
- Involve in Welding Procedure Qualification.

## Undergraduate Project Lead

- **Engineering Third Year Second Semester Project, Dept. of Agric. & Bio. Engineering, University of Nigeria, Nsukka. (Completed) 2013** Project Leader, (Development of a Temperature Sensor and its Application to Agricultural Perishable Products) University of Nigeria, Nsukka 2013. Supervised by Engr. Dr. C.J Ohagwu
- **Engineering, Fourth Year First Semester Project, Dept of Agric. & Bio. Engineering University of Nigeria, Nsukka. (Completed) 2014** Project Leader, (Development of a Pressure Sensor) University of Nigeria, Nsukka. Supervised by Engr. Dr. A.O Nwoke

## IT Skills

- Extensive knowledge of Microsoft programs.
- Command of ArcGIS
- Experienced in the use of advanced internet search engines

## Communication and Organization Skills

- Good written communication skills; built through essay writing, term paper writings, thesis writing and engaging literary writings as a hobby.
- Good verbal communication skills; gained through presentations, school coursework and interaction with colleagues and clients.
- Ability to multitask and still take on responsibility and execute given assignments accurately.
- Ability to prioritize projects, making plans and working with a schedule with minimal distractions.
- A focused worker who always maintains a clutter-free environment while working.
- Quick and flexible learning ability and enthusiasm to learn more and improve skills.
- Efficient contributor in team work (worked well as part of teams in previous school and work projects).
- Ability to work in teams as well as independently.

## Scholarships and Awards

- 2018 Commonwealth Scholarship to University of Portsmouth, UK
- 2018 Stipendium Hungaricum Scholarship to University of Debrecen, Hungary (accepted Commonwealth Scholarship instead)

- 2018 COMSATS University Islamabad Masters Scholarship, Pakistan, (accepted Commonwealth Scholarship instead)
- 2018 Erasmus+ Academic Staff Mobility Programme, Funded by European Commission at the University of Valladolid, Spain
- Best Graduating Student, Department of Agricultural and Bioresources Engineering, University of Nigeria 2014/2015 session
- Nneji Foundation Prize for Best Graduating Student, Department of Agricultural and Bioresources Engineering, University of Nigeria 2014/2015 session
- Award of Excellence, Most Dedicated Member, Nigerian Universities Engineering Students' Association (NUESA) University of Nigeria, 2014/2015 session
- 2013 Chief Emmanuel Iwuanyanwu Foundation Scholarship in the Faculty of Engineering, University of Nigeria
- 2013 Chief Emmanuel Chukwuka Ukala (SAN) Scholarship Fund at the University of Nigeria.
- 2014 Akiota Works Limited Scholarship in the Faculty of Engineering, University of Nigeria.

## Present Learning Courses

- Principles of GIS
- Geotechnics and Groundwater
- Contaminated Land Assessment and Remediation
- Principles and Analysis of Pollution with Metals

## Publications

### Journal(s)

- C. N. Anyanwu, C. A. Kalu, V. C. Okonkwo, J. I. Ume and **I. Onyekwelu**. "Design and Fabrication of Fluted Pumpkin (*Telfairia occidentalis*) Leaves Slicing Machine". *Nigerian Journal of Technology*. <http://dx.doi.org/10.4314/njt.v37i3.34> Vol. 37, No. 3, July 2018, pp. 813 – 817

### Conference(s)

- Ogwo Vintus, Emeka Ndulue Leonard, **Ikenna Onyekwelu**, Chinenye Chukwuemeka Anyadike and Constantine Crowner Mbajorgu; Evaluation of Empirical Methods for Estimating Daily Reference Evapotranspiration. *Presented in the 2018 Faculty of Engineering International Conference, Held 25<sup>th</sup> April 2018, at University of Nigeria, Nsukka*
- Chukwuemeka Jude Ohagwu, Wilfred Ifeanyi Okonkwo, Ugwuoke Kenneth Nwabueze and **Ikenna Onyekwelu**; *Comparative Analysis of Oil Extraction from Moringa oleifera Seed Using Mechanical and Solvent Methods. Presented in the 2018 NIAE-SER conference, Held 27<sup>th</sup> – 30<sup>th</sup> August 2018, at University of Nigeria, Nsukka.*
- UC Abada, WI Okonkwo, VC Okonkwo, and **I Onyekwelu**; Solar Desalination: A Remedy to High Cost of Salt Production in Uburu Community. *Presented in the 2018 NIAE-SER Conference, Held 27<sup>th</sup> – 30<sup>th</sup> August 2018, at University of Nigeria, Nsukka.*

### Manuscript submitted for publication

- Emeka Ndulue Leonard, Michael Okechukwu, Ogwo Vintus, and **Ikenna Onyekwelu**; Performance Evaluation of Solar Radiation Equations for Estimating Reference Evapotranspiration ( $E_t_o$ ) In A Humid Tropical Environment. *In review for publication in International Journal of Hydrology Science and Technology, Submission code: IJHST-205705. 2018*
- **Ikenna Onyekwelu**, Chinenye Chukwuemeka, Anyadike, Nelson Ossai, Nwoke Oji Achuka and Emeka Ndulue Leonard; Interrelationship between Some Morphometric Characters and Bodyweight of African Catfish (*Clarias gariepinus*). *Submitted to Cogent Taylor and Francis Mathematics and Statistics Journal 2018.*
- Constantine Crowner Mbajorgu, Gloria Ifeoma Ezenne and **Ikenna Onyekwelu**; Natural Flood Management: Concepts, Techniques and Application to Nigerian Environment. *In review; Nigerian Journal of Hydrological Sciences 2018.*

## Language Skills

- English (Very Fluent in writing, reading, speaking and listening)
- Spanish (Basics)

## Service and Leadership:

2015                      Committee Member, Nigerian Universities Engineering Student Association (NUESA),  
University of Nigeria, Nsukka

## Volunteer Programs

### Served Member, Technical Committee in Conferences

- Served as a member of technical committee in conferences.

### Co-founder, Early Prep Foundation (2016-present)

- Guiding middle school students on career choice.
- Organizing orientation for fresh undergraduate students.
- Organizing interactive session for scholarship applications.

### Ex-Corp member, Nigerian Youth Service Directorate (2016-2017)

- Promotion of effective and efficient service delivery to rural farmers.
- Educating members of the public on the right pattern of crop production and irrigation scheduling.
- Visitation of government parastatals of agriculture to encourage effective and efficient service delivery.

### Volunteer Tutor (2012-2015)

- Conducted free tutorials for over 80 third, fourth and final year undergraduate students in courses such as; Environmental Hydrology, Soil Mechanics, Drainage and Irrigation Engineering, Computational Methods, Engineering Analysis.

## Referees

Engr. Dr. Mrs. C.C Anyadike  
Senior Lecturer, Department of Agricultural and Bioresources Engineering, University of Nigeria.  
[chinenye.anyadike@unn.edu.ng](mailto:chinenye.anyadike@unn.edu.ng)

Engr. Dr. A.O Ani  
Associate Professor, Department of Agricultural and Bioresources Engineering, University of Nigeria.  
[ozoemena.ani@unn.edu.ng](mailto:ozoemena.ani@unn.edu.ng)

Engr. Dr. B.O Ugwuishiwu  
Associate Professor, Department of Agricultural and Bioresources Engineering, University of Nigeria.  
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