



Research Capacity Development Postgraduate School

The Department of Finance and Investment Management at the College of Business and Economics, in collaboration with the Research Capacity Development Unit at the Postgraduate School invites all Postgraduate students in the Built Environment (Civil Engineering, Architecture, Building and Real Estate) to:

An Immersive Technology Experience

DATE ▪ 19 May 2023

VENUE ▪ Nadine Gordimer Room, 5th Floor, APK Library.

TIME ▪ 13:00 to 16:00

FACILITATOR ▪ Dr Chukwuma Nnaji

HOST ▪ Prof Chioma Okoro – Department of Finance and Investment Management, UJ.

FOR BOOKINGS email Claudette Coetser at coetserc@uj.ac.za with "An Immersive Technology Experience" in the subject line.

PROGRAM DETAILS:

As part of this workshop, the facilitator will:

- Describe emerging trends in built environment research
- Display how immersive technologies are used to build competencies within the construction industry
- Demonstrate how immersive technologies promote human-robot interaction research
- Explain how immersive technologies could be incorporated into teaching and research

OUTCOME OF THE WORKSHOP:

At the end of the workshop, participants should be able to:

- Explain the role of immersive technologies in the built environment
- Differentiate between technologies within the extended reality spectrum
- Describe the process for implementing immersive technologies in the AEC industry
- Discuss factors that facilitate or prevent the use of immersive technologies in the built environment



ABOUT THE FACILITATOR:

Chukwuma Nnaji, MBA, Ph.D. received his MBA and doctorate degree in Civil Engineering from Oregon State University in the United States (US) in 2017 and 2018, respectively. Prior to joining the Construction Science Department at Texas A&M University as an assistant professor in 2022, Dr. Nnaji was an assistant professor in the Construction Engineering program at The University of Alabama for four years. Dr. Nnaji teaches graduate and undergraduate courses in safety engineering and management, sustainable construction, and construction methods. Dr. Nnaji's research focuses on formulating strategies and developing decision support tools that enhance construction safety and health, sustainable construction, human-robot interactions, construction automation, workforce development in different environments. He has received over \$2.5 million in external research funding from multiple agencies, including National Science Foundation, US Department of Labour and US Department of Defense. Dr. Nnaji has published 35 peer-reviewed journal articles, two book chapters, and 32 conference papers. He is a member of American Society of Civil Engineers and American Society of Safety Professionals.