

Professor: Raid Ramzi Al-Omari

Department of Civil Engineering

Professor of: Geotechnical Engineering

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Education:

PhD, University of Strathclyde/ UK, Year 1984

MSc, University of, Year

BSc, University of Baghdad, Year 1977

Profile:

73-81 **B.Sc.** in Civil Engineering, Army Service, Civil Engineer in Ministry of Irrigation

81-84 **Ph.D.** in Soil Mechanics and Foundation Engineering.

1985 Reserve Army Service. Employed as a Foundation Designer

85-89 **SCIENTIFIC RESEARCHER**, Building Research Center, Head of Structural Dept.

89 -2017 Al-Nahrain University, **PROFESSOR** from July 2000.

FIRST PROFESSOR in Engineering for the year 2007-2008.

FIRST PROFESSOR in Al-Nahrain University for the year 2010.

2017-now Retirement...*Part time* in Al-Farabi University College, Baghdad

Teaching

Subject: Engineering Geology:

- The Earth
- Structural Geology
- Minerals
- Types of Rocks and Soil
- Folds, Faults, Joints and Unconformity
- Engineering Properties of Rocks
- Under Ground Water Geology

Research Focus

- Soil Reinforcement
- Expansive Soil
- Effect of acids on Limestone rocks
- Gypsiferous Soil
- Piled Foundation
- Earthquake Liquefaction of soil
- Bio-cementation of soil

Recent Publications

- Al-Omari, R. R., Fattah M. Y. and Ali, H. A. (2016). Treatment of Soil Swelling Using Geogrid Reinforced Columns. *Italian Journal of Geosciences*, Vol. 135, No. 1, PP. 83-94.
- Al-Omari, R. R., Khaled Z. , Sheer Ali (2016). Strain behavior of geogrids reinforcing sand under a rectangular footing. *Japanese Geotechnical Society Special Publication Journal*, Vol.2, Issue 67, pp. 2280-2285.
- Al-Omari, R. R., Al-Azzawi, A.I A. and AlAbbas, K. A. (2016). Behavior of piled rafts overlying a tunnel in sandy soil. *Geomechanics and Engineering*, Vol. 10, No. 5, pp: 599-615.
- Al-Omari, R.R., Al-Kifae, A. A. and Al-Tameemi, S.M. (2018). Earthquake Effect on Single Pile Behavior with Various Factor of Safety and Depth to Diameter Ratio in Liquefiable Sand. *International Journal of Civil Engineering and Technology (IJCIET)*. Volume 9, Issue 4, April 2018, pp. 1253–1262.
- Al-Omari, R.R., Shafiqu, Q.S. and Al-Sammaraey, M.M. (2018). Liquefiable Sand Behavior Under Different Applied Cyclic Strain Amplitude in Cyclic Triaxial Test. *International Journal of Civil Engineering and Technology (IJCIET)*. Volume 9, Issue 4, April 2018, pp. 1290–1297.
- Ibrahim, M. A., Al-Omari, R. R., Ibrahim, M. H. (2018). Experimental Study to Improve the Shear Stress of Silty- Sandy Soils by Using Urease Producing Bacteria. *American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS)*. April.
- Al-Omari R.R., Fattah M. Y. and Kallawi A.M. (2018). [Laboratory Study on Load Carrying Capacity of Pile Group in Unsaturated Clay](https://doi.org/10.1007/s13369-018-3483-9). *Arabian Journal for Science and Engineering*, <https://doi.org/10.1007/s13369-018-3483-9>, Springer.
- Fattah, M, Al-Omari, R., and Fadhil, S. (2018). Load sharing and behavior of single pile embedded in unsaturated swelling soil. *European Journal of Environmental and Civil Engineering*, Taylor & Francis, <https://doi.org/10.1080/19648189.2018.1495105>.
- Raid R. Al-Omari, Madhat S. Al-Soud, Osamah I. Al-Zuhairi (2019). Effect of Tunnel Progress on the Settlement of Existing Piled Foundation, *Studia Geotechnica et Civica*, <https://doi.org/10.2478/sgem-2019-0008>.
- Hameedi, M., Fattah, M. and Al-Omari, R. (2019). Creep characteristics and pore water pressure changes during loading of water storage tank on soft organic soil. *International Journal of Geotechnical Engineering*, <https://doi.org/10.1080/19386362.2019.1682350>, Taylor & Francis Group.
- Bilal Salih, Mohammed Ibrahim, and Raid Al-Omari (2021). Estimation of the Settlement Components of Municipal Solid Waste. *Lecture Notes in Civil Engineering, Modern Applications of Geotechnical Engineering and Construction*, pp. 375-387.
- Osamah Al-Zuhairi, Raid Al-Omari, and Madhat Al-Soud (2021). Experimental and Numerical Analysis of an Existing Single Pile Movement Due to Tunneling in Sandy Soil. *Lecture Notes in Civil Engineering, Modern Applications of Geotechnical Engineering and Construction*, pp. 71-87.

Affiliations/Activities

- Member of Iraqi Union of Engineers
- Member of the Iraqi Scientific Society for Soil Mechanics and Foundation Engineering