

# Jamal M. A. Alsharef

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## Civil and Structural Engineering

- A top-performing Geotechnical Engineer with 11 years of experience supervising and consult for geotechnical works, soil investigation in-site for structure projects.
- Teaching and webmaster (Engineer site) experience fields for four years. Experience in writing technical reports, reviewing articles, supervisor researches, training students in soil lab, manager of engineering projects (Engineering Projects) and working in a group.

## Areas of Expertise

- Geotechnical Engineering (Site investigation & Construction, Soil improvement, Mechanical soil, designing of concrete retaining walls and Slope Stability). Soil improvement-Geoenvironmental
  - Geoenvironmental (Soil improvement & Soil behavior).
  - Teaching: Soil Mechanics, Road Engineering, Buildings Creation, Engineering Geology, Transport, and Traffic Engineering and Civil Drawing.
  - Plaxis.
  - Fluent: English & Arabic
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## Education

**Ph.D. degree**, Civil and Structural Engineering, Faculty of Engineering & Built Environment  
University Kebangsaan Malaysia (UKM), Malaysia - 2018  
**Master's Degree**, Civil Engineering, The National University of Malaysia (UKM), Malaysia- 2009  
**Bachelor's Degree**, Civil Engineering, Sebha University, Libya- 1995

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## Professional Experience

### UCSI UNIVERSITY, MALAYSIA

March - July 2019

#### RESEARCHER, & TRAINING

- Member investigator an associate project, Project code: Proj-In-FETBE-060 with a total budget of RM 50,000 (US\$ 12,500) UCSI University, Malaysia.
- Training final year project students short terme for 4 month, Civil Engineering, Faculty of Engineering, Technology & Built Environment, UCSI University, 56000 Cheras, Kuala Lumpur, Malaysia.

### THE NATIONAL UNIVERSITY OF MALAYSIA, Malaysia

Sep 2017- Jan 2019

#### TEACHING ASSISTANT

Lab Teaching Assistant, supervision of graduate students' projects in the Geotechnical lab, training students in the soil lab. Demonstrator at Structural analysis lab.

- Instructed an Upper Division Level Material Processing Lab of 5+ students two times a week.
- Organized and directed two different labs relating to civil engineering.
- Evaluated assignments and exams from 80+ students and provided a fair assessment.
- Provided detailed explanation of processes that were demonstrated in lab experiments.
- Demonstrated new processes to students including Geotechnical engineering and, Structural analysis.
- Conducted ASTM standardized test processes that are currently used in the industry.

**HIGH INSTITUTE FOR COMPREHENSIVE PROFESSIONS, SHATTY, LIBYA**

2009 to 2013

**VISITING TEACHING MEMBER**

Teaching (Soil Mechanics, Road Engineering, Buildings Creation, Engineering Geology). Supervised many graduate students' projects in the field Geotechnics) (Civil Engineering).

**SEBHA UNIVERSITY, SEBHA, LIBYA**

2009 to 2013

**LECTURE**

Department of Civil Engineering:

- Courses are teaching (Soil Mechanics I and II, Roads and Airports Engineering, Engineering Geology, Transport, and Traffic Engineering, Civil Drawing).
- A supervisor researches of BSc students. Training students in the soil lab. (Civil Engineering, Faculty of Engineering and Technology).

**OFFICE OF ALKACER CONSULTANT, SEBHA, LIBYA**

2001 to 2005

**SITE CONSULTANT ENGINEER**

Execute the ALSHATY Hotel as a field engineer consultant. Plan, design and inspect construction work of the project. Oversee design and construction aspects of assigned projects. Collaborate with senior consultants to execute risk analysis studies.

**PUBLIC SERVICE UTILITY, BRAK, ALSHATE, LIBYA**

1998 to 2007

**HEAD OF DEPARTMENT OF ENGINEERING PROJECT**

- planning and directs all design engineers, drafters, and technical engineers working on projects, and managing the development, implementation, and evaluation of designs, the overseas product construction, and testing to ensure completion of projects.
- Evaluating and approves the changes that substantially impact the scope, budget, or schedule of a project.

**SEBHA UNIVERSITY, SEBHA, LIBYA**

1996 to 2007

**ENGINEER LAB**

Senior engineering in Department of civil engineering:

- A consult for all geotechnical research in south of Libya.
- A consultant with staff in geotechnical research groups.
- Training and teaching practical part for students in the lab (soil mechanics lab).
- A soil investigation in-site for structure projects (Civil Engineering, Faculty of Engineering and Technology)

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**Activities**

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**PEER REVIEW ACTIVITIES**

July 2018 -Present

- Reviewer, journal articles (4-5 per year): Construction and Building Materials Journal **ISI (Q1)**, Journal of Civil Construction and Environmental Engineering, African Journal of Engineering Research, and Some International conferences.

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**Professional Bodies / Professional Recognition**

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1-International Association of Engineers (IAENG): Member- 2018.

### **Publications in Academic Journals**

- 1- **Alsharef, J. M. A.**, Taha, M. R., Firoozi, A. A. & Govindasamy, P. 2016. Potential of Using Nanocarbons to Stabilize Weak Soils. *Applied and Environmental Soil Science* 2016.
- 2- **Alsharef, J. M.**, Taha, M. R., Al-Mansob, R. A. & Khan, T. A. 2017. Influence of Carbon Nanofibers on the Shear Strength and Comparing Cohesion of Direct Shear Test and AFM. *Journal of Nano Research* 49(108-126). (ISI)
- 3- **Alsharef, J. M. A.**, Taha, M. R. & Khan, T. A. 2017. Physical Dispersion of Nanocarbons in Composites – a Review. *Jurnal Teknologi* 79(5): 69-81.
- 4- Govindasamy, P., Taha, M. R., **Alsharef, J. M. A.** & Ramalingam, K. 2017. Influence of Nanolime and Curing Period on Unconfined Compressive Strength of Soil. *Applied and Environmental Soil Science* 2017.
- 5- Taha, M. R., **Alsharef, J. M.**, Al-Mansob, R. A. & Khan, T. A. 2018. Effects of Nano-Carbon Reinforcement on the Swelling and Shrinkage Behaviour of Soil. *Sains Malaysiana* 47(1): 195-205. (ISI)
- 6- Taha, M. R. & **Alsharef, J. M. A.** 2017. Use of Nanocarbons to Control Swelling, Shrinkage, and Hydraulic Conductivity of a Residual Soil. *Proceedings of the 2nd Symposium on Coupled Phenomena in Environmental Geotechnics (CPEG2)*, Leeds, UK 2017.
- 7- Taha, M. R. & **Alsharef, J. M.** 2018. Performance of Soil Stabilized with Carbon Nanomaterials. *Chemical Engineering Transactions*. 757-762. Italian Association of Chemical Engineering-AIDIC.
- 8- Taha, M. R. & **Alsharef, J. M. A.** 2018. Effect of Dispersion of Nanomaterial on Adhesion Properties of Soil Using Atomic Force Microscopy. *International Journal of Advances in Mechanical and Civil Engineering* 5(2): 8-12.
- 9- Al-Mansob, R. A., Ismail, A., Rahmat, R. a. O., Borhan, M. N., **Alsharef, J. M.**, Albrka, S. I. & Karim, M. R. 2017. Evaluation of Permanent Deformation and Durability of Epoxidized Natural Rubber Modified Asphalt Mix. *IOP Conference Series: Materials Science and Engineering*. 012015.
- 10- Al-Mansob, R. A., Ismail, A., Rahmat, R. a. O., Borhan, M. N., **Alsharef, J. M.**, Albrka, S. I. & Karim, M. R. 2017. The Performance of Epoxidised Natural Rubber Modified Asphalt Using Nano-Alumina as Additive. *Construction and Building Materials* 155(680-687). (ISI)
- 11- Gaber, M., Kasa, A., Abdul-Rahman, N. & **Alsharef, J. M. A.** 2018. Simulation of Sequential Construction of Embankments on Reinforced Soft Clay Foundation. *Indian Geotechnical Journal* 1-8.
- 12- Gaber, M., Rahman, N. A. & **Alsharef, J. M. A.** 2018. Comparison between Unit Cell and Plane Strain Models of Stone Column Ground Improvement. *International Journal of Engineering and Technology (UAE)* 7(2): 263-269.
- 13- Maryam Gaber, A. K., Norinah Abdul-Rahman and **Jamal M. A. Alsharef.** 2018. Simulation of Stone Column Ground Improvement (Comparison between Axisymmetric and Plane Strain). *American Journal of Engineering and Applied Sciences* 11(1): 129-137.
- 14- Mohd R. Taha, **Jamal M. A. Alsharef**, Tanveer A. Khan, Mubashir Aziz & Gaber. M. 2018. Compressive and Tensile Strength Enhancement of Soft Soils Using Nanocarbons. *Geomechanics and Engineering* 16(5): 559-567. (ISI)
- 15- Firoozi, A. A., Taha, M. R., Khan, T. A., Hejazi, F., Firoozi, A. A. & **Alsharef, J. M. A.** 2019. A Novel Method for Mixing Nanomaterials with Soil. *Nano Hybrids and Composites* 25;46-68.
- 16- **J. M. Alsharef**, M. R. Taha, P. Govindasamy, A. A. Firoozi, and R. A. Al-Mansob, "Effect of nanocarbons on physical and mechanical properties of soils," *Carbon Nanomaterials for Agri-Food and Environmental Applications*, pp. 459-485: Elsevier, 2020.
- 17- **Alsharef J. M A.**, Taha M. R., Al-Mansob R. A., Govindasamy P. Evaluation of the dispersion stability of Nanocarbons using Zeta Potential in distilled water. *Nano Hybrids and Composites*. Vol. 26; pp 8-19. 2019.

- 18- Taha M. R, **Alsharef J. M. A**, Khan T. A, Al-Mansob R. A, Gaber M. Ultrasonic Dispersion of Nanocarbons in Soil-water Mixture. Material Science (Medziagotyra) 2020;26(1). (**ISI**)

### Proceedings of Conferences

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- 1- Taha. M. R, Govindasamy. P, and **Alsharef. J. M. A**, 2019. Some Geotechnical Behaviour of Silty Clay Improved with Lime and Nanolime. 7th International Symposium on Deformation Characteristics of Geomaterials (IS-Glasgow 2019) 92. 11005. UK.
  - 2- Taha, M. R. & **Alsharef, J. M. A**. 2017. Performance of Soil Stabilized with Carbon Nanomaterial. ASIA International Multidisciplinary Conference, SET-715, Johor, Malaysia.
  - 3- Taha, M. R. & **Alsharef, J. M. A**. 2018. Effect of dispersion of nonmaterial on adhesion properties of soil using Atomic Force Microscopy. ISERD 326th International Conference on Science and Innovative Engineering (ICSIE), ISD-SIEBALI-13028-6557, Bali, Indonesia. (**Excellent paper award**)
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### Training Courses

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| ▪ Design-Expert software                      | Malaysia, 2017 |
| ▪ Workshop on How to Write a Scientific Paper | Malaysia, 2016 |
| ▪ English course.                             | USA, 2014      |
| ▪ English course                              | Malaysia, 2008 |
| ▪ AutoCAD 2005 2D.                            | Libya, 2005    |
| ▪ Autodesk Land Desktop 2004.                 | Libya, 2004    |
| ▪ Computer course in Excel.                   | Libya, 1999    |
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### References

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#### **Prof. Dr. Mohd Raihan Taha**

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**Prof. Dr. Eng. Abdulsalam Akasha**

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