

Jamal M. A. Alsharef

Citizenship: Libya

Phone: +218-945493916

Email: jamalshref@yahoo.com & jamalshref@gmail.com

<https://scholar.google.com/citations?user=18ZP3sIAAAAJ&hl=en>

Civil and Structural Engineering

- A top-performing Civil Engineer with 25 years of experience supervising and consult for geotechnical works, soil investigation in-site for structure projects.
- Teaching and webmaster (Engineer site) experience fields. 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

- Civil 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, Foundation Engineering, Road Engineering, Buildings Creation, Engineering Geology, Transportation, and Traffic Engineering and Civil Drawing.
 - Plaxis (Geotechnical Engineering Softwer).
 - 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

Professional Experience

UNIVERSITY OF TRIPOLI, TRIPOLI, LIBYA

Mar 2023 to Present

ASSISTANT PROFESSOR

Department of Civil Engineering:

- Courses are teaching Soil Mechanics II.
- A supervisor research of BSc students.

SEBHA UNIVERSITY, SEBHA, LIBYA

Sep 2019 -Feb 2023

LECTURER

Department of Civil Engineering:

- Courses are teaching (Soil Mechanics I and II, Foundation Engineering I and II, Roads and Airports Engineering, Engineering Geology, Transport and Traffic Engineering, Civil Drawing).
- A supervisor research of BSc students. (Civil Engineering, Faculty of Engineering and Technology).

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 term 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).

OFFICE OF ALKASER 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 2013

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)
- 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).

Activities

PEER REVIEW ACTIVITIES

July 2018 -Present

- Reviewer, journal articles (4-5 per year): Construction and Building Materials Journal **ISI (Q1)**, Measurement Journal **ISI (Q1)**. Trans Tech Publications Ltd (AEF, JERA and JNanoR(**ISI**)), Journal of Civil Construction and Environmental Engineering, African Journal of Engineering Research, and Some International conferences.
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Professional Bodies / Professional Recognition

- 1- American Society of Civil Engineers (ASCE) Construction Institute: Member- 2016
- 2- International Association of Engineers (IAENG): Member- 2018.
- 3- Member of the Fourth International Scientific Committee for Science and Technology (ICST 2021).
- 4- Academic Evaluator, Libya Innovation Award 2021.
- 5- Member of the General Syndicate of Engineering Professions in Libya, Consulting Engineer: Since 2009.
- 6- Editor of the Journal of Scientific Research, Africa University for Humanities and Applied Sciences, ISSN: 2707- 9554.

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- **Alsharef J. M. A.**, Taha M. R., Khan T. A., Al-Mansob R. A., Gaber M. Ultrasonic Dispersion of Nanocarbons in Soil-water Mixture. *Material Science (Medziagotyra)* 2020;26(1). (ISI)
- 19- Al-Mansob, Ramez Al-Ezzi Abduljalil, Oi Mun Hoong, Wan Nur Aifa Wan Azahar, Jing Lin, **Jamal M. A. Alsharef**, and Shaban Ismael Albrka Ali. The effect of Carbon-Nanofiber and hydrated lime on weak soil stability. *Malaysian construction research journal (MCRJ)* :14. 3. 1. 2021.
- 20- Al-Mansob RA, Katman HY, Al-Sabaei AM, Zamzami M, Al-Fakih A, Wei WK, Jassam TM, **Alsharef J**, Surol SB, Yusof NH, Koting S. Effect of Carbon Nanofibers on Physical, Adhesion and Rheological Properties of Liquid Epoxidized Natural Rubber Modified Asphalt. *Materials*. 2022 May 29;15(11):3870.
- 21- **Jamal M. A. Alsharef** and Maryam Gaber, Nano Carbons, their Applications and Dispersion. *Journal of Scientific Research*. 2023;15 (67-79).

Proceedings of Conferences

- 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**)
- 4- RA Al-Mansob, LY Jia, **Jamal. M. A. Alsharef**, TM Jassam, JL Ng, SIA Ali, SB Surol. Effects of carbon-nanotube and lime on the weak soil stability, AIP Conference Proceedings 2401 (1), 020011. 2021.
- 5- Ramez A Al-Mansob, Wei Fua Wong, **Jamal M. A. Alsharef**, Taha M Jassam, Jing Lin Ng, Shaban Ismael Albrka Ali, Zeety Binti Md Yusof. Unconfined compressive strength characteristic of soft soil mixed with lime and nano alumina. AIP Conference Proceedings 2401 (1), 020010. 2021.

- 6- Taha, M.R., **Alsharef, J.M.** (2023). Zeta Potential of Dispersed Nanocarbons by Sonication. Sustainable Earth and Beyond. EGRWSE 2022. Lecture Notes in Civil Engineering, vol 370. Springer, Singapore.
https://doi.org/10.1007/978-981-99-4041-7_28.

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

Prof. Dr. Mohd Raihan Taha

Department of Civil and Structural Engineering
Faculty of Engineering and Built Environment
University Kebangsaan Malaysia
43600 UKM Bangi, Selangor Darul Ehsan, MALAYSIA
Tel: 0060122356942
E-mail: profraihan@ukm.edu.my

Dr. Ir. Anuar Kasa

Department of Civil & Structural Engineering
Faculty of Engineering and Built Environment
University Kebangsaan Malaysia
43600 UKM Bangi, Selangor Darul Ehsan, MALAYSIA
Tel:0060183792011
Email: iranuar@ukm.edu.my

Assistant Professor. Dr. Ramez A. Al-Mansob

Dept. of Civil Engineering, International Islamic
University Malaysia (IIUM), Gombak, Malaysia
Tel: 0060111838362
[Email:ramez@iium.edu.my](mailto:ramez@iium.edu.my)