

PERSONAL DATA

Name: Ressel R. Shakir
Rank : Professor
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University of Thi-Qar
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Education

Ph.D., Hohai University, Nanjing, China, 25\12\2009.
M.Sc., University of Technology, Baghdad, Iraq, 2001.
B.Sc., Civil Engineering, University of Technology, Baghdad, 1998

M.Sc. Thesis: Consolidation of a Thick Clay Layer with Variable Permeability.

PhD. Dissertation: Experimental Study and Numerical Constitutive Modeling of Soil-Concrete Interaction.

Academic Record with CE

27/11/2018	Professor
18/11/2011	Assistant Professor
2005-2010	Lecturer
2002-2005	Assistant Lecturer.

Other related experience: teaching, industrial, etc**Teaching**

2005-present Civil Engineering Department / University of Thi-Qar
2002-2005 Computer science Department / University of Thi-Qar

Training at ..**Research field**

2002-present: several research activities including:

1. Programming the finite element method
2. Foundation engineering
3. Reliability based design
4. Constitutive modeling of soil and materials.
5. Experimental studies on interface.
6. Stochastic analysis
7. Sustainability

Consulting, Patents, etc.

- (a) Structural and geotechnical design
- (b) Structural assessment for buildings and foundations
- (c) Site investigations.
- (d) Laboratory testing.

- Design of foundation of the hospital at Suq alsheekh
- Project of central Shat Al-arab
- Structural analysis of Algaraph Mosque
- Consultant supervision of the group of Suq Alsheekh buildings
- Site investigation of the refinery oil
- Consultant supervision of site investigations
- Design of Foundation

Patents --

Books

Memberships in Scientific and Professional Societies

Honors, Awards, Grants

Awards

First Grade of "Foreign Student Special Award" in the 2006/2007 academic year from Hohai University

Grants

Principal publications

1. Ressel Reissan Shakir, (2004), Estimation of the quantity of seepage under single sheet pile through two layered soil. Eng. & Tech. Journal (Published). "University of Technology". Engineering and Technology Journal 23 (4), 181-190
2. Ressel Rayssan Shakir, (2005), Undrained bearing capacity for strip footing on two layered elastic-plastic clay by using FEM. Eng. & Tech. Journal, Vol.24, No6, 651-669 "University of Technology".
<https://www.iasj.net/iasj?func=article&aId=67131>;
https://eatj.iraqjournals.com/article_67131.html
3. Ressel Reissan Shakir, (2006), Stability coefficients charts for two layered earth Slopes Using Finite Element Method. Engineering and Development Journal, 10(4):120-139.
<https://www.iasj.net/iasj?func=search&template=&uiLanguage=en&query=Stability+Coefficients+Charts+for+Two+Layered+Earth+Slopes+Using+Finite+Element+Method+&x=0&y=0>
4. R. R. Shakir, Jun-Gao Zhu, "Mechanical behavior of soil and concrete interface", Proc. SPIE 7375, ICEM 2008: International Conference on Experimental Mechanics 2008, 73756R (25 August 2009); doi: 10.1117/12.839390; <https://doi.org/10.1117/12.839390>.
<https://www.spiedigitallibrary.org/conference-proceedings-of-spie/7375/73756R/Mechanical-behavior-of-soil-and-concrete-interface/10.1117/12.839390.short?SSO=1>

5. Shakir R.R. (2009) Quantity of Flow through a Typical Dam of Anisotropic Permeability. In: Yuan Y., Cui J., Mang H.A. (eds) Computational Structural Engineering. Springer, Dordrecht. https://doi.org/10.1007/978-90-481-2822-8_147. https://link.springer.com/chapter/10.1007/978-90-481-2822-8_147. www.springerlink.com
6. R. R. Shakir, and Jungao Zhu, (2009), Behavior of compacted clay-concrete interface. Frontiers of Architecture and Civil Engineering in China. Volume 3, Number 1 <https://doi.org/10.1007/s11709-009-0013-6>. www.springerlink.com
7. R. R. Shakir, and Jungao Zhu, (2009), Nonlinear elastic model for compacted clay concrete interface. Frontiers of Architecture and Civil Engineering in China, Volume 3, Number 2 / June, 2009, pp. 187-194. <https://doi.org/10.1007/s11709-009-0033-2>. www.springerlink.com
8. R. R. Shakir, and Jun-Gao Zhu, (2010), An examination of the mechanical interaction of drilling slurries at soil-concrete contact. Journal Zhejiang Univ-Sci A (Appl Phys & Eng) 2010 11(4):294-304. <https://doi.org/10.1631/jzus.A0900456>.
9. Zhu JunGao, R. R. Shakir, Yany You-lian, Peng Kai. Comparison of behavior of soil-concrete interface from ring-shear and simple shear tests, Journal of Rock and Soil Mechanics. Rock and Soil Mechanics 2011, 32(3) 692-696 DOI: ISSN: 1000-7598 CN: 42-1199/03.
10. Ressel R. Shakir (2011) "Effect of an impervious core constructed into a large earth dam on the quantity of seepage" Thi-Qar University Journal of Engineering Science Vol. 2, No. 2. P 1:17. <https://www.iasj.net/iasj?func=article&aid=19247>
11. Ressel R Shakir and Ikbal khalaf (2012) "Studying the effect of scale of fluctuation of permeability on the flow through an earth dam using stochastic finite element." Journal of Engineering Sciences, Vol. 2, No. 4, pp. 116-130. <https://www.iasj.net/iasj?func=article&aid=38861>
12. Ressel R. Shakir and Zhu JunGao (2013) "Effect of bentonite mudcake on the interface between sandy clay and concrete." Thi-Qar University Journal for Engineering Sciences. Vol. 3(2) : 48-60. <https://www.iasj.net/iasj?func=article&aid=64890>
13. Ressel R. Shakir and Muhammed Majeed (2014) " Two Dimensional Consolidations for Clay Soil of Non-Homogeneous and Anisotropic Permeability" International Journal of Scientific Engineering and Research. Vol 2(10) Pp:1-6. <http://www.ijser.in/v2i10.php>.
14. Amer, N., Younis, L., Thamer, L. and Ressel R. Shakir (2015) "Strength characteristics of fine sand soil mixed with cement and silica fume" ICET, Accepted
15. Shakir, R.R. (2018). Selecting the Probability Distribution of Cone Tip Resistance Using Moment Ratio Diagram for Soil in Nasiriyah. Geotech Geol Eng. *Geotechnical and Geological Engineering* June 2019, Volume 37, Issue 3, pp 1703–1728
16. <https://doi.org/10.1007/s10706-018-0716-3>.

- <https://link.springer.com/article/10.1007/s10706-018-0716-3>.
17. Ressel. R. Shakir (2018), Probabilistic-based analysis of a shallow square footing using Monte Carlo simulation, [Engineering Science and Technology, an International Journal](#).<https://doi.org/10.1016/j.jestch.2018.08.011>.
<https://www.sciencedirect.com/science/article/pii/S2215098618308395>
 18. Ressel R Shakir (2018) Spatial correlation of cone tip resistance for soil in Nasiriyah. The open civil engineering journal (TOCIEJ-12-413). Vol(12), pp. 413-429. DOI: 10.2174/1874149501812010413.
<https://opencivilengineeringjournal.com/VOLUME/12/PAGE/413/FULLTEXT/>
 19. Ressel R. Shakir and Zhu JunGao (2018) Hyperolic elastic-plastic model for bentonite slurry in contact with soil and concrete by using disturbed state concept. Achieved
 20. Ressel R. Shakir (2018) Soil classification based on cone penetration test using k-Means clustering analysis. Achieved.
 21. Ressel R. Shakir (2018) Estimating the bearing capacity of piles based on uncertain soil parameters. Achieved
 22. EVALUATION OF BEARING CAPACITY FOR PILE FOUNDATION BASED ON SPT AND CPT MEASUREMENTS USING VARIOUS METHOD (International Conference on Infrastructure and Construction to be hold on **October 11-12, 2019 Dubai, UAE**).
<https://scientificfederation.com/icic-2019/program.php#>

Institutional and Professional services

Institutional service activities

1. Member of Editorial board of Smart Construction journal
<http://ojs.whioce.com/index.php/scr/about/editorialTeam>.
2. Member of scientific committee 6th Annual International Workshop on Materials Science and Engineering IWMSE 2020, <http://www.iwmse2020.org/?op=committee>
3. Member of TPC/Reviewer committee in 2019 International Conference on Energy, Power and Environmental Science (EPES2019), <http://www.epes2019.org/>
4. Member of Technical Program Committees of 2019 5th GMEE2019-Technical program committee, <http://5th-gmee.org/com.html>
5. Conference co-chair <https://scientificfederation.com/icic-2019/> International Conference on Infrastructure and Construction to be hold on **October 11-12, 2019 Dubai, UAE**.
6. Member of Technical Program Committees in the IWMSE2019,
<https://iopscience.iop.org/article/10.1088/1757-899X/585/1/011003>
7. Member of scientific committee The 3d annual international conference on advanced environmental engineering ICAEE2019, <http://www.icaee2019.org/?op=committee>
8. Member of scientific committee of 5th annual international workshop on materials science and engineering. <http://www.iwmse2019.org/?op=committee>

9. Member of Technical Program Committees of 2019 International Conference on Advanced Material Research and Processing Technology (AMRPT 2019) (<http://www.amrpt2019.org/com.html>).

Memberships of committees at department of CE

1. Member of quality assurance of the Iraqi engineering colleges (ICAEE)
2. Member of quality assurance committee in University of Thi-Qar
3. Member of scientific promotions committee in engineering college.
4. Coordinator of quality assurance and academic accreditation Unit in Engineering College
5. Coordinator of the scientific committee in civil engineering
6. Participated in department seminars.
7. Corporation with colleagues in academic and scientific committees.

Academic courses taught at civil engineering department and computer science

1. Advanced Foundation Engineering, MSc course in Civil Engineering
2. Finite Element method 2018, MSc course in civil engineering
3. Foundation engineering 2010-present
4. Finite Element method 2014, MSc course in mechanical engineering
5. Statistics 2011-2014
6. Strength of material 2005-2006
7. Engineering mechanics 2004-2006
8. Data structure 2002-2004
9. Pascal language 2002-2004
10. C++ language 2002
11. Compiler 2002-2004
12. Website design 2004-2005

Senior projects

2010-2011

1. Mechanical behavior of sand-bentonite mixture (Experimental study)
2. Behavior of pile-raft foundation under medium-rise building (Theoretical study)
3. Estimating the consolidation settlement and bearing capacity for raft foundation by stochastic analysis. (Theoretical study)

2011-2012

1. Studying the mechanical characteristics of sand-cement mixture (Experimental study)
2. Strength characteristics of recycled concrete (Experimental study)

2012-2013

1. Studying the strength characteristics of foamed concrete (Experimental study).
2. Effect of shear wall thickness on the stability, Theoretical work (Theoretical study).
3. Assessment of using sandy silt soil as a founded layer (Experimental study)

2013-2014

Mechanical characteristic of soil-bentonite mixture

2017-2018

Reliability Analysis of Pile Foundation

2018-2019

Improving the bearing capacity of soil in Naseriyah: an experimental study

Workshops

Scientific discussion committees

1. Chair of discussion committee, 30/1/2013, Msc Degree.
2. Member of discussion committee, 10/10/2013, PhD Degree
3. Member of discussion committee, 25/6/2014, MSc degree
4. Member of discussion committee, 4/9/2014, MSc degree
5. Chair of discussion committee, 3/9/2016, MSc degree
6. Chair of discussion committee, 12/11/2018, MSc degree

Professional society activities

1. Lecture on urban planning in 17/6/2016 at 10 p.m for professors with multi-disciplines.
2. Workshop on Thinking skills
3. Workshop on Learning skills
4. Workshop on The outcomes of learning
5. The important laws for the manager assistant of dean of college

Refereed projects and research papers for the following journals:

1. Reviewing scientific papers
2. Reviewing thesis and dissertations

Professional development activities

1. Attending conference and workshops
2. Attending lectures
3. Follow up of recent trends in education technologies like utilization of software packages.
4. Certified Peer Reviewer Course by research academically (Elsevier)

Links of google scholar, researchgate, publons, Mendely and Orcid

<https://publons.com/researcher/1488873/ressol-r-shakir/publications/>

https://www.researchgate.net/profile/Ressol_Shakir

<https://scholar.google.com/citations?user=Gpz27f0AAAAJ&hl=ar>

<https://www.scopus.com/authid/detail.uri?authorId=25960366300>

<https://orcid.org/0000-0002-6682-4868>.

[https://www.mendeley.com/profiles/ressol-r-shakir/?dgcid=Mendeley Desktop Profile](https://www.mendeley.com/profiles/ressol-r-shakir/?dgcid=Mendeley+Desktop+Profile)

<https://www.linkedin.com/in/ressol-r-shakir-4102a4139/>