

Osama K. Nusier

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962-79-9066999 • Irbid, Jordan

Nationality: Jordanian • Birth: 25/09/1969

Marital Status: Married, Three Children



Summary

Astute leader and accomplished professional with history of delivering sound guidance across educational environments; expertise in streamlining processes, facilitating change, and responding to the needs of faculty, staff, and students, extensive experience in teaching and conducting research in the area of geotechnical engineering. Extensive experience in ensuring vision, mission, curriculums, and programs reach their full potential through stakeholder, community, and organizational engagement. Dynamic presenter, speaker, and educator recognized throughout career for delivering educational strategies with focus on establishing positive learning environments. Successful record of securing diverse grants through expertise in grant acquisition and has delivered hundreds of presentations at national and international conferences.

Dynamic communicator who provides a clear vision to identify, develop and generate organizational practices that advance educational goals. Looking to leverage advanced education and career experience in next phase of a rewarding career.

Areas of Emphasis

- Philosophy, Vision & Mission Setting
- Diversity, Equity & Inclusion
- Identifying Organizational Needs
- Curriculum Development & Integration
- Intl. Ranking & Accreditation Process
- Student Engagement & Retention
- Budget & Financial Management
- External Partnership Development
- Identifying Student Needs
- Consultancy & Advisement
- Expert Speaker & Presenter
- Research & Grant Writing
- Project & Program Management
- Leading, Training, Mentoring
- Diverse Student Populations

Education

Ph.D., Geotechnical Engineering | The University of Akron, Akron, OH-USA 1996

GPA: 3.94/4.0 | Dissertation: "Engineering Reliability of Dams"

Master of Science, Geotechnical Engineering | Jordan University of Science & Technology, Jordan 1994

GPA: 95.1/100 – Honor | Thesis: "Seismic Hazard Assessment and Evaluation of Dynamic Site Periods in Karak City"

Bachelor of Science, Water Resources & Environmental Eng. | Jordan University of Science & Technology, Jordan, 1992

GPA: 81.3/100 – Honor | Project: "Seepage Control in JUST Earthfill Dam"

Statement of Leadership

A vision of leadership is built around articulated goals, team work, responsibility, accountability, respect, and proper networking skills that focus on achieving mission and goals together. Strategically developing communication environments result in driving engagement, spirit of ownership, integrating change, and I effectively delegate tasks and vision principles across all levels of an organization to drive consensus. Broad background and in-depth experience in ensuring organizational vision, personnel, and programs align with Diversity, Equity, and Inclusion (DEI) strategy.

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Effectively improve workforce performance by leading by example which drives staff and employees to give 100% effort and loyalty to the organizational vision.

Statement of Teaching & Research

Progressive experience in the development and oversight of academic programs, curricular pathways, and initiatives that promote student growth and achievement. Dedicated education advocate with unyielding commitment to continual growth and learning to ensure students achieve their full academic potential. Provide an energetic and educational atmosphere to motivate students in independent and critical thinking while advancing their problem-solving skills and ensure student engagement and retention. Utilize student achievement data to identify areas of opportunity and academic deficiencies to consistently raise expectations of students and staff.

Strong advocate of multi-disciplinary research regarding geotechnical, sustainability of natural resources -sustainable energy and have been conducting research in soil mechanics, foundations (concentrating on pile foundation and drilled shafts design and monitoring) , deterministic and probabilistic slop stability analysis and design, seismic hazard assessment (macro and micro zonation), reliability analysis of Dams Stability (both earth fill Dams and Roller compacted concrete gravity Dams), sediment assessment for Dams, seepage control and settlement assessment and evaluation of Dams, expansive soil stabilization using micro piles and granular pile anchor techniques. Working in modeling stabilizing slopes using drilled shafts operating with Centrifuge Technology at Case Western Reserve University Structural Lab located in Cleveland, OH-USA. **Author and Co-author of 69 high-caliber articles published in international peer reviewed journals and conference proceedings.**

Career Experience Administrative Timeline

- **President**, Al al-Bayt University, 2023 to present
- **Vice President**, Jordan University of Science & Technology, 2015 to 2018
- **Acting President**, Jordan University of Science & Technology, 23/03/2016 to 30/03/2016, 30/11/2016 to 07/12/2016, 07/05/2018 to 14/05/2018
- **Vice President**, Al al-Bayt University, 2012 2015
- **Acting President**, Al al-Bayt University, 07/2014 to 09/2014
- **Dean of Engineering Faculty**, Al al-Bayt University, 2012 to 2015
- **Dean of Student Affairs**, Jordan University of Science & Technology, 2010 to 2012
- **Director of Civil Society Development Center**, Jordan University of Science & Technology, 2002 to 2006
- **Assistant Dean of Faculty of Graduate Studies**, Jordan University of Science & Technology, 2001 to 2003
- **Chairperson of Geotechnical Engineering Division**, Civil Engineering Department, Jordan University of Science & Technology, 1999 to 2001
- **Editor, Rehab al Jamea News Paper**, Jordan University of Science & Technology, 2010 to 2012
- **President**, Jordan University of Science & Technology Employee Club, 02/2000- to 08/2000
- **Chairperson**, Queen Rania Al-Abdullah Center for Environmental Sciences & Technology Advisory Committee, Jordan University of Science & Technology, 2015 to 2018
- **Chairperson**, Consultative Center for Science and technology Advisory Committee, Jordan University of Science & Technology, 2015 to 2017
- **Chairperson**, Computer and Information Center Advisory Committee, Jordan University of Science & Technology, 2015 to 2017
- **Member**, Queen Rania Al-Abdullah Center for Environmental Sciences & Technology Advisory Committee, Jordan University of Science & Technology, 2000 to 2002
- **Secretary**, University Graduate Studies Council, Jordan University of Science and Technology, 2001 to 2003
- **Member**, University Scientific Research Council, Jordan University of Science & Technology, 2001 to 2003

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- **Member**, Jordan University of Science & Technology Council, Jordan University of Science & Technology, 1999 to 2006
- **Coordinator of MED Project "Toward Democratic Thinking"** funded by European Union, implementing by British council, Jordan and Jordan University of Science & Technology, 1999 to 2001
- **Founder and Coordinator for the establishment of Civil Society Development Center**, Jordan University of Science and Technology, 2001 to 2002

Career Experience

Vice President, Acting President

2015 to 2018

Jordan University of Science & Technology (JUST), Irbid, Jordan

Provided expert recommendations and direction on all student-related matters and oversee daily operations of the Colleges of Engineering, Architecture & Design, Veterinary Medicine, Computer & Information Technology, Agriculture, Science & Art and the Nanotechnology Institute. Provide daily direction for the Information Technology and Communication Center, Consultative Center for Science and Technology, Language Center, Energy Center, Civil Society Development Center, Queen Rania Al-Abdullah Center for Environmental Science & Technology and Centennial Library. In addition, accountability for engineering projects unit, engineering workshops unit, operation and maintenance unit, central supplies unit, central tenders department, Department of Catering and Food Services, transportation department, housekeeping department, and Safety, Occupational and Environmental Health Department.

The following are highlights of value:

- JUST has been recognized as the first University in Jordan to be ranked in the top 500 global universities and is set to become a top 400 university on a global scale.
- Successfully received Accreditation Board for Engineering and Technology (ABET) accreditation for civil engineering, electrical engineering, aeronautical engineering, chemical, industrial engineering, and biomedical engineering programs.
- Have achieved international accreditation of all programs and have led transformation of teaching method into project-based and problem-based methods to encourage and foster innovation and entrepreneurship.
 - The college of architecture and design - Department of Architecture received the NAAB's International Certification for the architecture program.
 - The college of science and art - department of chemistry received Canadian accreditation certificate (CSC) for the applied chemistry program.
 - The college of science and art - department of biology accreditation committee received the German (AZIIN), for the biotechnology and genetic engineering program.
 - The college of computer and information technology – computer engineering received the ABET accreditation for computer engineering program,
 - The college of computer and information technology – department of software engineering received IET Accreditation for the software engineering program
- Led the development and opening of Veterinary Hospital within the university campus, the only one of its kind in Jordan. Hospital is funded by an external grant as part of the Gulf grants to Jordan.
- Built the Central Administration building within the university campus, funded by an external grant as part of the Gulf grants to Jordan.
- Installed the Photovoltaic Power Plant (5MW), funded by an external grant as part of the Gulf grants to Jordan.
- Strengthened JUST library system through expansion of the university's participation in international publication databases such as ScienceDirect, Scopus, Springer, Wiley-Blackwell, Taylor & Francis EBSCO.

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- Continually identify areas of opportunity resulting in converting multiple processes at the university/colleges into electronic processes which has increased engagement and communications amongst the units.
- Strategically develop key relationships with community, industry, and private sector ensure sustainable growth with a commitment to the university's social responsibility.
- Expanding the application of blending learning modules and have initiated problem-based and project-based learning across multiple courses with expansion of online learning.
- Provide administrative leadership and facilitate comprehensive development, implementation and evaluation of curriculums for multiple programs including medicine and dentistry, Ph.D. program in Civil Engineering, MSc. Program in Network Engineering & Security, Nanotechnology & Engineering, and Biomedical Engineering, and Faculty of Engineering, along with MSc. Program in Data Science.
- Oversee staff participation in over 300 international conferences, 80+ workshops, 70+ scientific meetings, and ~30 specialized training sessions.
 - Successfully signed multiple memorandums of understanding (MOU) with reputable universities and international institutions. MOUs were activated and used for faculty and student mobilization aimed at building capacity and knowledge and experience transfer.
 - JUST hosted international conferences in the colleges of Engineering, Computer & Information Technology, Agriculture, Veterinary Medicine, Science, and Architecture and design, which attracted a significant number of international speakers and scholars. It also reinforced JUST connections and visibility in the academic international community.
 - Expanded cooperation with international agencies like USAID, DAAD, GIZ, European Commission and UNDP, at graduate studies level, scientific research level, and consulting services level.

Vice President

2012 to 2015

Al-al-Bayt University, Mafraq, Jordan

Directed administrative and financial affairs for over 12 departments and centers and effectively directed all processes related to major university infrastructure projects, continuous development of human resources for both academic and administrative staff. Direct report to the President on administration and financial matters.

Accountability for the Computer Center, e-Learning Center, Department for Finance, Human Resources Department, Engineering Department, Department of Agriculture and Landscaping, Tenders and Procurements Department, Department of Supplies and Warehouse, Department for Maintenance and Production, Department of Public Services, Department of Energy, and Registration Department.

- Led project management, procurement and supervision of all purchases, warehouse inventory, and dissemination of resources. Secured \$26.5M in external funding for 7 infrastructure projects.
 - College of Engineering Building, 8.5M, United Arab Emirates
 - School of Business Building, 8.5M, United Arab Emirates
 - Consultations & Technical Services and Community Development center, liaison office building in the capital Amman, 1.75M, Kingdom of Saudi Arabia
 - Prince Hussein Bin Abdullah II School of Information Technology Building, 1.75M, Kingdom of Saudi Arabia
 - 3MW photovoltaic power plant, 3.75M, United Arab Emirates
 - Infrastructure network project, 1.5M, Kingdom of Saudi Arabia
 - Surveillance system project, 0.25M, Kingdom of Saudi Arabia
- Prepared statements and documents to improve organizational operations which included Policies Document, Organizational Structure and Job Descriptions, The Strategic Plan, and the Risk Management Strategic Plan.

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- Monitored the implementation of the Quality Assurance System which assisted in establishing the universities credibility while improving work processes and efficiencies across the workplace and allowed university to compete on a global scale.

Dean of Engineering

2012 to 2015

Al-al-Bayt University, Mafraq, Jordan

Responsible for the development and integration of college's Vision and Goals Statement, developed college budget, and led the college efforts toward achieving its goals. Oversaw development of curriculum development with continuous review, coordinated the governance of the college and led college administrator recruitment and selection.

- Successfully led the preparation and coordination of activities associated with fulfilling the Faculty of Engineering toward Accreditation Board for Engineering and Technology (ABET) accreditation.
- Created and implemented new academic program for renewable energy engineering, established 14+ new teaching and research laboratories in multiple departments; Civil Engineering Department, Surveying Engineering Department and Renewable Energy Engineering Department.
- Led and mentored 8+students in the pursuit of their Ph.D. degree; located and assisted in acceptance to universities around the world with most accepting educational offers in the United States and Western Europe.
- Coordinated the students and faculty exchange with EU universities supported by ERAMUS, plus program funded by the European Commission.

Professor in Geotechnical Engineering

2012 to 2015

Civil Engineering Department, Al Al-Bayt University, Irbid, Jordan (Sabbatical Leave from JUST)

Provided an energetic and educational atmosphere teaching geotechnical engineering courses to undergraduate/graduate students. Prepared students to excell as leaders, encouraged discussion, debate, and expression.

- Adequately prepared all course material and lessons and communicated to student's clear course expectations, evaluation and timelines.

Dean of Student Affairs

2010 to 2012

University of Science & Technology, Irbid, Jordan

Led daily oversight on student-related matters, student development, and enrollment services. Established processes and procedures to drive high student engagement across multiple student clubs and student union including the annual election process. Fostered collaborative partnerships within the community, university administrators, and students to create diverse student opportunities.

- Effectively managed and coordinated over 80 sports, cultural and volunteer events; created events from concept to completion, budget development, and drove highest levels of student participation.
- Directed the annual Job Fair working in collaboration with King Abdullah II Fund for development; led strategic direction, built key relationships with sponsors and recruiters, managed marketing, and ensured students were ready for opportunities.

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- Established and integrated the first JUST Debate Club which empowered students to express their beliefs clearly and concisely through public speaking and effective communications in a formal setting. Encouraged students to address issues and current events in the world.
- Successful led fundraising activities that raised over \$50K for the Poor Student Fund and developed student led fundraising opportunities to assist cancer patients, Somalian and Syrian refugees.

Director of Civil Society Development Center

2002 to 2006

Jordan University of Science & Technology, Irbid, Jordan

Provided leadership, strategic planning and operational oversight for overall implementation of evidence-based and effective approaches to strengthen civil society processes regarding current/future developmental challenges in Jordan's ongoing democratization process. Managed all administrative matters and financial affairs and managed all projects activities and funding.

- Played significant role in securing 6M Euro in funding; participated in voluntary activities and projects related to community empowerment in cooperation with Al-Hayat center for civil society development and other international and national non-governmental organizations.
- Built key relationships and strengthened ties with local, national, and international organizations and bodies that shared the Center's mission.
- Led strategic development of processes in proposal writing for projects related to the enhancement of competences of the university community.

Assistant Dean of Faculty, Graduate Studies

2001 to 2003

Jordan University of Science & Technology, Irbid, Jordan

Oversaw direction on admission processes of graduate students, reviewed curricula of graduate MSc, and the Ph.D., programs and managed and led activities of staff members. Provided leadership and mentoring to students, directed graduate students' Thesis and defense and established best thesis award for graduate students.

- Developed and integrated new on-line admission system for graduate students which resulted in increased enrollment and met enrollment growth goals utilizing student-driven experiences.
- Worked in coordination with diverse external organizations to increase number of internal/external scholarships for graduate students.
- Created and led multiple workshops with focus on assisting, mentoring, and coaching graduate students on improving their soft skills such as attention to detail, follow through, teamwork, leadership, and work ethic.

Additional Experience

Editor, Rehab al Jamea Newspaper

President, Employee Club

TA, Lecturer & Assistant Professor

Instructor Assistant, University of Akron, OH-USA

Higher Management Experience

- Vice President, Board of trustees, Al-Hayat Center, Jordan, 2010 to present.
- Member, Board of trustees, Jadara University, Jordan, 2023 to present.
- Member, Jordan University of Science and Technology strategy preparation committee, 2016 to 2020
- Chairperson, Al- al Bayt University strategy preparation committee, 2015 to 2020

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- Member, Technical Committee, Democratic Empowerment, King Abdallah II Fund, Amman, Jordan, 2014 to 2016
- Member, Board of trustees, American University of Madaba, Jordan, 2013 to 2016
- Consultant to the Minister of Social Development (Juvenile centers reform), Jordan, 2002 to 2003
- Policies & Strategies Consultant, The Ministry of Political Development (Jordanian youth Parliament), Jordan, 2006
- Member, Board of Directors, Housing & Urban Development Corporate, Jordan, 2010 to 2012
- Member, Committee responsible for preparing the National Dialogue on University Violence, Ministry of Higher Education & Scientific Research, 2012
- Member, Committee responsible for preparing a strategy for reducing university violence, Ministry of Higher Education & Scientific Research, 2012
- Member, Committee responsible for preparing the (university environment component) for the National Strategy of Higher Education and Scientific Research, Ministry of Higher Education & Scientific Research, 2012

Honors & Awards

- King Hussein Environmental Management Training Program Award, Public Awareness & Participatory Rapid Appraisal Modules, Jordan, 1999
- Scholarship, University of Akron (Akron, OH, USA). Department of Civil Engineering, 1994 to 1996
- Honorary Certificate for outstanding student, Jordan University of Science & Technology, Jordan, 1994
- Scholarship, Jordan University of Science & Technology, Civil Engineering, Jordan, 1992 to 1994
- Honorary Certificate for Outstanding Student, Jordan University of Science & Technology, Jordan, 1992
- Honorary Certificate for outstanding student, Jordan University of Science & Technology, Jordan, 1991
- Honorary Certificate for outstanding student, Jordan University of Science & Technology, Jordan, 1990

Academic & Administrative Committees

- Reviewer and Member of several quality assurance and Accreditation committees for different academic programs in different academic institutions, 2010 to present
- Member, Academic Committee in Scientific Research Fund (SRF), Jordan, 2022 to present
- Chairperson, Central Course Curriculum Committee, Jordan University of Science and Technology, 2015 to 2018
- Member, Higher Scientific Committee in Scientific Research Fund (SRF), Jordan, 2017 to 2019
- Chairperson, Housing Fund Committee, Jordan University of Science and Technology, 2016 to 2018
- Chairperson, Central Tenders Committee, Jordan University of Science and Technology, 2016 to 2017
- Chairperson, Buildings Committee, Jordan University of Science and Technology, 2016 to 2017
- Chairperson, Emergency Committee, Jordan University of Science and Technology, 2016 to 2017
- Chairperson, Graduation Committee, Jordan University of Science and Technology, 2016 to 2017
- Chairperson, New Students Reception Committee, Jordan University of Science and Technology, 2016 to 2017
- Member, Central Quality Assurance Committee, Jordan University of Science and Technology, 2016 to 2017
- Member, Strategic plan Committee (2020), Jordan University of Science and Technology, 2016 to 2017
- Chairperson, Occupational health & Environmental safety and Health Advisory Committee, Jordan University of Science & Technology, 2015 to 2017
- Chairperson, Registration & Course Schedule Committee, Jordan University of Science & Technology, 2015 to 2017
- Chairperson, Year Book Committee, Jordan University of Science & Technology, 2015 to 2017
- Chairperson, Undergraduate Degree Regulations Committee, Jordan University of Science & Technology, 2015 to 2016
- Chairperson, University's Website Committee, Jordan University of Science & Technology, 2015 to 2016
- Chairperson, University's Master Plan Committee, Jordan University of Science & Technology, 2015 to 2016
- Member, University's Financial Investment Committee, Jordan University of Science & Technology, 2015 to 2016
- Chairperson, Central Tenders Committee, Al al-Bayt University, 2012 to 2013
- Chairperson, Buildings Committee, Al al-Bayt University, 2012 to 2015
- Chairperson, Employees Affairs Committee, Al al-Bayt University, 2012 to 2015
- Chairperson, Course Schedule Committee, Al al-Bayt University, 2012 to 2013
- Chairperson, Job Description Committee, Al al-Bayt University, 2012 to 2014
- Chairperson, Regulations Development for Student Council Committee, Al al-Bayt University, 2012 to 2014
- Chairperson, Budget Preparation Committee, Al al-Bayt University, 2012 to 2015
- Chairperson, Water Consumption Management Committee, Al al-Bayt University, 2012 to 2013

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- Chairperson, Computer Center Committee, Al al-Bayt University, 2012 to 2015
- Chairperson, Students Funding Committee, Al al-Bayt University, 2012 to 2015
- Chairperson, Student Affairs Committee, Al al-Bayt University, 2012 to 2013
- Chairperson, Bureau Auditing Inquires Committee, Al al-Bayt University, 2012 to 2015
- Chairperson, Planning and Developing Competencies Committee, Al al-Bayt University, 2012 to 2015
- Chairperson, New Students' Reception Committee, Al al-Bayt University, 2012 to 2015
- Chairperson, Agreement Review for Ministry of Health Insurance Committee, Al al-Bayt University, 2012 to 2013
- Chairperson, Health Insurance Committee, Al al-Bayt University, 2012 to 2015
- Chairperson, University Students Discipline Committee, Jordan University of Science & Technology, 2010 to 2012
- Chairperson, Graduation Ceremony Committee, Jordan University of Science and Technology, 2010 to 2012
- Member, Civil Engineering Department Social Committee, Jordan University of Science & Technology, 1998 to 2001
- Member, Civil Engineering Department Graduate Studies Committee, Jordan University of Science & Technology, 2000 to 2003
- Member, Civil Engineering Department Scientific Research Committee, Jordan University of Science & Technology, 2001 to 2002
- Member, University Students Discipline Committee, Jordan University of Science & Technology, 2000 to 2002
- Member, University Special Accreditation Committee, Jordan University of Science & Technology, 2001 to 2003

Academic Experience

Dec. 2008- Present	Professor in Geotechnical Engineering, Civil Engineering, Department, Jordan University of Science & Technology, Irbid, Jordan
Aug. 2012-Aug. 2015	Professor in Geotechnical Engineering, Civil Engineering, Department, Al Al-Bayt University, Mafraq, Jordan (Sabbatical Leave form JUST)
Dec. 2003-Dec. 2008	Associate Professor in Geotechnical Engineering, Civil Engineering Department, Jordan University of Science & Technology, Irbid, Jordan
Sep. 1998-Dec. 2003	Assistant Professor in Geotechnical Engineering, Civil Engineering Department, Jordan University of Science and Technology, Irbid, Jordan
Sep. 1997-Sep.1998	Full Time Lecturer in Geotechnical Engineering, Civil Engineering Department, Jordan University of Science & Technology, Irbid, Jordan
Jan. 1994- Dec. 1996	Instructor Assistant, Civil Engineering Department, The University of Akron, Akron, OH-USA
Sep. 1992-Jan. 1994	Teaching Assistant, Civil Engineering Department, Jordan University of Science & Technology, Irbid, Jordan

Teaching Experience

Graduate Teaching

CE 701	Advanced Applied Mathematics for Engineers
CE 702	Applied Statistics for Civil Engineers
CE 703	Seminar in Civil Engineering
CE 761	Advanced Soil Mechanics
CE 763	Advanced Foundation Engineering

Undergraduate Teaching

CE 200	Engineering Drawing
CE 201	Static's
CE 211	Probability and Statistics for Civil Engineers
CE 311	Numerical Methods for Civil Engineers
CE 343	Surveying Lab.
ME 402	Numerical Methods for Mechanical Engineers
CE 461	Soil Mechanics I

CE 463 Soil Mechanics Lab.
CE 464 Foundation Eng. I
CE 556 Dam Engineering
CE 561 Soil Mechanics II
CE 564 Foundation Eng. II
CE 566 Soil Stabilization
CE 580 Special Topics in Civil Engineering

Master Thesis

- The Effect of Soil Plug on Ultimate Bearing Capacity of Smooth Open-Ended Piles Driven in Sand: Experimental Approach, by Ahmed Abo Eid, Master of Science in Civil Engineering, JUST, 2021 (Advisor).
- The Effect of Soil Plug on Ultimate Bearing Capacity of Rough Open-Ended Piles Driven in Sand: Experimental Approach, by Harith Salman, Master of Science in Civil Engineering, JUST, 2021 (Advisor).
- The Efficiency of Granular Pile Anchor Foundation System to Reduce the Heave of Irbid Expansive Clayey Soil, by Al-Ahmed Suqaier, Master of Science in Civil Engineering, JUST, 2020 (Advisor).
- The Efficiency of Granular Pile Anchor Foundation System in Improving the Pullout Resistance of Irbid Expansive Clayey Soil, by Amani Al-Masoud, Master of Science in Civil Engineering, JUST, 2020 (Advisor).
- New Analytical Approach for Predicting the Load-Displacement Curve of Axially Loaded Piles Driven in Sand, by Botool Al-Shorman, Master of Science in Civil Engineering, JUST, January 2020 (Co-Advisor).
- Tensile Capacity of Granular Pile Anchors in Expansive Clay: Theoretical Approach, by Amani Bani Khalaf, Master of Science in Civil Engineering, JUST, 2020 (Examining Committee member).
- Estimation of friction Capacity of Driven Piles in Sand: Effect of Sand Dilation, by Bayan Al-Jararha, Master of Science in Civil Engineering, JUST, 2020 (Examining Committee member).
- A new approach for estimating capacity of driven piles in sand under tensile loading, by Mais Atiyeh, Master of Science in Civil Engineering, JUST, 2019 (Co-Advisor).
- The Effect of Using Alkali-Resistant Glass Fibers and Portland Cement on The Geotechnical Properties of Highly Expansive Soil, by Hadeel Al Zoghool, Master of Science in Civil Engineering, JUST, 2019 (Examining Committee member).
- Assessment of Rock Fall and Slope Stability of 2017 Jarash Landslide, by Osama Dawas, Master of Science in Civil Engineering, JUST, 2019 (Examining Committee member).
- Spatial Distribution of Engineering Soil Properties in the Northern Region of the Dead Sea, Jordan, by Fardous Rababah, Master of Science in Civil Engineering, JUST, 2018 (Advisor).
- Base Capacity of Open-Ended Pipe Piles Driven in Sand, Jordan, by Manar Othman, Master of Science in Civil Engineering, JUST, 2018 (Examining Committee member).
- Pile Load – Displacement Curve in Cohesionless Soil Considering Soil/Pile Set-Up, by Maysa A. Khassawneh, Master of Science in Civil Engineering, JUST, 2009 (Co-Advisor).
- Geotechnical Mapping for Irbid Soil Using GIS, by Abdalah Gharaybeh, Master of Science in Civil Engineering, JUST, 2009 (Advisor).
- Time Dependent Capacity Increase for driven piles in cohesionless soil, by Murad Awamleh, Master of Science in Civil Engineering, JUST, 2007 (Co-Advisor).

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- Full scale micropiles to control uplifting of lightweight facilities over Irbid expansive clays, by Rabi J. Rabadei, Master of Science in Civil Engineering, JUST, 2004. (Advisor).
- Poisson's Ratio Effect on Compressive and Tensile Shaft Capacity of Driven Piles in Sands: Theoretical Formulation, by Abdulla Sharo', Master of Science in Civil Engineering, JUST, 2004. (Co-Advisor).
- Load-displacement Response of Driven Piles in Cohesionless Soils Under Compressive Loading: A Method Accounting for Post-Driven Residual Stresses by Khaled Noor, Master of Science in Civil Engineering, JUST, 2004. (Co-Advisor).
- Scale Effect Study on Shear Strength Using Large Scale Direct Shear Device, by Kifah Ewisat, Master of Science in Civil Engineering, JUST, 2004 (Examining Committee member).
- Stability Analysis of Slope Using Finite Element Method and Limiting Equilibrium Approach, by Mohamad Yameen, Master of Science in Civil Engineering, JUST, 2004 (Examining Committee member).
- A Study of Temperature Distribution and Thermal Stresses in Roller Compacted Concrete (RCC) Gravity Dams, by Mohamad Al Jamal, Master of Science in Civil Engineering, JUST, 2004 (Examining Committee member).
- Micropiles as a technique to control upward movement of foundation of light structures on the expansive clays of Irbid area: small scale experimental study, by Baha Ataree, Master of Science in Civil Engineering, JUST, 2001. (Advisor).
- Effect of curing and mixing temperature on the mechanical properties of fiber reinforced concrete, by Esam Abdul Muhsin Jafar, Master of Science in Civil Engineering, JUST, 1999. (Examining Committee member).
- Estimation of axial pile capacity in sand considering post-driving residual stresses, by Mustafa Al-Saleh, Master of Science in Civil Engineering, JUST, 1998. (Examining Committee member).
- Seismic analysis of slope stability using Monte-Carlo simulation technique, by Waleed Falih Hassan, Master of Science in Civil Engineering, JUST, 1998. (Examining Committee member).
- Experimental approach for evaluating soil damping for driven piles, by Izz-Al-deen Ayasreh, Master of Science in Civil Engineering, JUST, 1998. (Examining Committee member).

Grants

- Reliability Study for Evaluating Instability of Embankment Slopes, Funded by Deanship of Scientific Research at Jordan University of Science and Technology. Contract No. 14/98, Jan. 1998 to Jan. 1999. Amount JD 3600.
- Physico-Chemical Effect on Expansive soils Behavior due to Adding Fly-Ash and Superplasticizer, Funded by Deanship of Scientific Research at Jordan University of Science and Technology. Contract No. 72/99, Aug. 1999 to Aug. 2000. Amount JD 3600.
- Micropiles as a technique to control upward movement of foundation of light structures on the expansive clays of Irbid area: experimental study, Funded by Deanship of Scientific Research at Jordan University of Science and Technology. Contract No. 200/2000, Dec. 2000 to Dec. 2002. Amount JD 5000.
- Toward Democratic Thinking Project, Funded by European Union, implementing in cooperation with British council/Jordan and JUST. Sep. 1999 to April 2001, Amount EUR 170,000.
- Civil Society Development Center establishment at JUST, Funded by British Embassy/Jordan, in cooperation with British council/Jordan. May 2001 to May 2003, Amount £108,000.
- Youth Participation in the 2001 Parliamentary Elections, Funded by British Embassy/Jordan, in cooperation with British council/Jordan, Jordan University, and JUST. May 2001 to May 2002, Amount £20,000.
- Women in Parliament Project, Funded by European Union, implementing in cooperation with British council/Jordan, Jordan University and JUST. Aug. 2001 to Aug. 2002 Amount EUR 635,630.
- Earthquake Risk Assessment of Amman Municipality, funded by UNDP project "Support to Building National Capacities for Earthquake Risk Reduction at Amman Municipality in Jordan 51485", Oct. 2007 – 2009, Amount \$600,000.

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- First Conference for Jordanian Universities Students, (Political Development empowerment in Jordanian Universities), Fundraising from different private sector bodies (i.e. banks and companies), Jordan University of Science and Technology, 2004, Amount JD 70,000.
- Jordanian Youth Development and Reform Handbook, Funded by Konrad Adenauer Stiftung, 2005, Civil Society Development Center, JUST, Amount \$50,000.
- CSDC Open days, Funded by International and national organizations, (for the years 2003, 2004, 2005 and 2006), Civil Society Development Center, JUST, Amount \$40,000.
- Jordan for us Program, Funded by International and national organizations, 2005, Civil Society Development Center, JUST, Amount \$20,000.
- Graduated Students Package (training on different Job Market and personal skills), Funded by International and national organizations, 2005, Civil Society Development Center, JUST, Amount \$25,000.
- International Cultural Exchange Program for different Countries, Funded by different international organizations, 2005, Civil Society Development Center, JUST, Amount \$60,000.
- Discover Euro-Mid Workshop, Funded by EU, 2005, Civil Society Development Center, JUST, Amount EUR 7,000.
- Dialogue with Leaders Program, Funded by national organizations, (2004 and 2005) Civil Society Development Center, JUST, Amount \$20,000.
- Sehtak bel donia, Health Awareness Program, Funded by national organizations, 2005, Civil Society Development Center, JUST, Amount \$10,000.
- Building University Students' Council Members Democratic Capacity, funded by the MOPIC, European Union Delegation (EUD) and the Netherlands Embassy, (managed by Al-Hayat center, Amman, Jordan), 2009 to 2010, Amount EUR 172,810.
- Promoting Entrepreneurship in Poverty Pockets in Jordan – Municipality of Kufranjah, funded by the European Union Delegation (EUD), (managed by Al-Hayat center, Amman, Jordan), 2010 to 2012, Amount EUR 110,000.
- Building the Capacity of Young Jordanians Human Right Defenders (YJHRDs) at Jordanians' universities, funded by the Netherlands Embassy, (managed by Al-Hayat center, Amman, Jordan), 2011 to 2014, Amount JD 194,518.
- Flood wave Propagation and Infiltration in Desert Regions: The Azraq Basin, Jordan, funded by USAID (PEER Program), Jun. 2012 to Jun. 2015, Amount \$ 93,350.
- Effecting and Enhancing Grassroots Participation in the Political Reform Process in Jordan: MUSHARAKA, funded by European Union Delegation (EUD), (managed by Al-Hayat center, Amman, Jordan), 2013-2015, Amount EUR 484,747.
- Ana Usharek, funded by USAID, (managed by NDI, Amman, Jordan), 2012 to 2020, Amount \$ 5 million, (Role: Senior advisor and head program coordinator).
- Potential use of reclaimed wastewater as groundwater recharge: Amman - Zarqa basin, funded by Deanship of Research, Al al-Bayt university. April 2015 to present, Amount \$80,000.
- RASSED for open Government Monitoring, funded by FHI/USAID, (2015-2017), (managed by Al-Hayat center, Amman, Jordan), 2015-2017, Amount JD 318,441.
- Increase Public Accountability through Open Government Partnership, funded by USAID, (managed by Al-Hayat center, Amman, Jordan), 2017 to present, Amount JD 275,593.
- Building the Partnership and Capacity Among CBOs and Educational System in Jordan to Prevent and Counter Violent Extremism, funded by Canadian Department of Foreign Affairs, Trade and Development, (managed by Al-Hayat center, Amman, Jordan), 2017 to present, Amount CAD 520,943.
- Countering Violent Extremism: Empowering CBOs to Prevent and Tackle Violent Extremism at the Grassroots Level, funded by The Ministry of Foreign Affairs, (managed by Al-Hayat center, Amman, Jordan), 2017 to present, Amount NOK 4,444,680.
- OptArch 689983- Optimization Driven Architecture of Structures. H2020-MSCA-2015-RISE-2015. Funded by European Commission, Euro 1,620,000.

Conferences

- Member of the Steering Committee of the International Conference “Coordinating Engineering for Sustainability and Resilience” CESARE’22, JUST, Irbid. Jordan 6-9 May 2022
- Member of the Steering Committee of the First International Conference “Optimization -Driven Architectural Design” OPTARCH 2019, Amman. Jordan November 5-7,2019

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- Chairman of the Advisory Committee of the first International Conference on Integrated Natural Disaster Management, Marriott Hotel, Dead Sea, Jordan, March 28-29, 2018
- Member of the Steering Committee of the International Conference “Coordinating Engineering for Sustainability and Resilience” CESARE’17, MOVENPICK, Dead Sea. Jordan 3-8 May 2017
- Inaugural International Conference of the Engineering Mechanics Institute (EM08), ASCE, May 2008, Minneapolis, Minnesota, USA
- The International Conference on Construction and Technology (ICCBT 2008), June 2008, Kuala Lumpur, Malaysia
- Geo-Joran 2004 Advances in Geotechnical Engineering with emphasis on Dams, Highway materials and soil improvement, July 12-15, 2004, Jordan
- Roller Compacted Concrete dam construction in Middle East, International Conference, April 7-10, 2002, Irbid, Jordan
- Seventh Annual International Conference on Composites Engineering, July 2-8, 2000, Denver, Colorado, USA
- 99 International Conference on dam safety and Monitoring, China, (1999)
- Third International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, April 2-7, 1995, in St. Louis, Missouri, USA
- Sixth Arabic Conference on Structural Engineering, 1995, Damascus, Syria

Training Courses

- Training Course on Environmental Impact Assessment (EIA), Public Participation, (18 – 22 April 1998). Funded by King Hussein Environmental Management Training Program, Amman, Jordan.
- Training Course on Environmental Public Awareness (PA), (October 1998). Funded by King Hussein Environmental Management Training Program, Amman, Jordan.
- Training Course on Environmental Participatory Methods (PM), (October 1998). Funded by King Hussein Environmental Management Training Program, Amman, Jordan.
- Training Course on Training of Trainers (TOT), (1 – 5 November 1998), Jordan Institute of Public Administration, Amman, Jordan.
- Trainers Technical Upgrading Program on Participatory Rapid Appraisal (PRA), (January 23 to February 5, 1999). Funded by King Hussein Environmental Management Training Program, delivered by the World University Service of Canada, Ottawa, Canada.
- Trainers Technical Upgrading Program on Environmental Public Awareness (PA), (February 8 - 19, 1999). Funded by King Hussein Environmental Management Training Program, delivered by World University Service of Canada, Vancouver, Canada.

Workshops & Forums

- Training Workshop on human resources building for Jordan Environmental Society middle of Jordan branches, (4 – 6 July 1998). Dana Reserve, Jordan.
- Training Workshop on year 2000 Version of ISO 9000, (17 Aug. 1998). Amman-Jordan.
- Training Workshop on Debating Skills, toward democratic thinking project, organized by JUST and The British Council/Jordan. Funded by European Union, (30 Oct. – 3 Nov., 1999). JUST, Jordan.
- Training Workshop on Developing competencies for managing change, toward democratic thinking project,

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organized by JUST and The British Council/Jordan. Funded by European Union, (7– 17 Nov., 1999). JUST, Jordan.

- Training Workshop on Gender Awareness, toward democratic thinking project, organized by JUST and The British Council/Jordan. Funded by European Union, (20– 24 Nov., 1999). JUST, Jordan.
- Training Workshop on Family protection issues, toward democratic thinking project, organized by JUST and The British Council/Jordan. Funded by European Union, (27 Nov. – 1 Dec., 1999). JUST, Jordan.
- Training Workshop on Religious Understanding and Diversity, toward democratic thinking project, organized by JUST and The British Council/Jordan. Funded by European Union, (20 March – 23 March., 2000). JUST, Jordan.
- Training Workshop on building Facilitation Skills, organized by Civil Society Development Center at JUST. Funded by the British Embassy/Jordan, (9 Sept. – 13 Sept., 2001). JUST, Jordan.
- Training Workshop on Social Issues with Special Focus on Women in Jordan, organized by Civil Society Development Center at JUST. Funded by the British Embassy/Jordan, (23 Sept. – 26 Sept., 2001). JUST, Jordan.
- Training Workshop under Women in Parliament Project/ Women and youth political participation, organized by Civil Society Development Center at JUST. Funded by the European Union, (16 –19 May, 2002). JUST, Jordan.
- Training Workshop under Women in Parliament Project/ Planning workshop for finding mechanisms to activate students' participation in university life with students and faculty members, organized by Civil Society Development Center at JUST. Funded by the European Union, (5,6 August, 2002). JUST, Jordan.
- Tolerance Values: Toward Human Security, Conference organized by Regional Center for Human Security / Jordan Institute of Diplomacy, funded by Netherlands Government. Radisson SAS Hotel, (20-22 October, 2003). Jordan.
- First Forum for Jordanian Clubs about Political Development, organized by Ministry of Political Development and Higher Council for Youth. Al-Hussein Youth City, (1, May, 2004). Amman, Jordan
- First Forum for Jordanian University Students about Political Development, organized by Ministry of Political Development and Higher Council for Youth. Al-Hussein Youth City, (8, May, 2004). Amman, Jordan
- Media and Human Rights Workshop, organized by Al-Ofog Dialogue Conference Center and Civil Society Development Center, funded by Inter-News Network. Intercontinental Hotel, (27- 30 June, 2004). Amman, Jordan.
- Second Jordan Youth Forum, organized by King Abdullah II for Development Fund. Moevenpick Resort, (17, 18 July, 2004). Dead Sea, Jordan.
- Tradition and Modernization: A Jordanian- Japanese Dialogue, organized by the Royal Institute for Inter- Faith Studies and Jordan Institute of Diplomacy | Cooperation with the Japan Foundation and the Embassy of Japan. Royal Cultural Center, (12 September, 2004). Amman, Jordan.
- National Health Awareness Strategy Priorities (North Governance Workshop), organized by John Hopkins University. Masaya Hall, (21 September, 2004). Irbid, Jordan.
- Arab Regional Meeting for Family Affairs Councils, Organized by National Council for Family Affairs, funded by United Nations Economic and Social Commission for Western Asia (ESCWA), the Arab Family Organization (AFO) and the General Secretariat of the Arab League. Meridian Hotel, (5, 6 October, 2004). Amman, Jordan.
- National Strategy for Jordanian Families Workshop, organized by National Council for Family Affairs. Sheraton Hotel, (9 October, 2004). Amman, Jordan.
- National Workshop for Homes for poorer families, organized by Ministry of Planning and International Cooperation. Marriot Hotel, (9,10 October, 2004). Dead Sea, Jordan.

Event & Community Activities

- Toward democratic thinking project, organized by JUST and The British Council/Jordan. Funded by European Union, Held at JUST, Jordan. (May 14-24, 2000).

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- First Jordanian Inter-Collegiate Conference “entitled “Political Development Techniques Enhancement at Jordanian Universities”, organized by Civil Society Development Center at JUST. (December 14, 2003 – January 4, 2004). JUST
- National Youth Meeting over Environment, organized by Higher Council for Youth and Civil Society Development Centre as part of the National Youth Strategy. (February 24 – 27, 2005). Amman Youth Hostel, Amman Jordan.
- Youth Media Open Day, organized by Civil Society Development Centre. (April 19, 2005) JUST, Jordan.
- Second North Meeting entitled “A Royal Vision for the Role of Jordanian Youth in the Reform and Development Process”, Organized by Civil Society Development Centre, Konrad Adenauer Foundation, and National Forum for Youth and Culture. (May, 26 – 28, 2005). JUST, Jordan.
- National Youth Meeting over Media, organized by Higher Council for Youth and Civil Society Development Centre as part of the National Youth Strategy. (July 14 – 16, 2005). Amman Youth Hostel, Amman Jordan.
- Reform and Development Workshop, organized by Civil Society Development Centre and Konrad Adenauer Foundation. (July 25 – 28, 2005). JUST, Jordan.
- Third North Forum entitled “Jordanian Parliamentary Elections: Future Readings by Jordanian Youth”, organized by Civil Society Development Centre, Konrad Adenauer Foundation, and National Forum for Youth and Culture. 2006

Delivered Seminars & Lectures

- Strategic planning for academic institutions. (Several workshops held in different institutions).
 - Quality Management for academic programs. (Several workshops held in different institutions).
 - Management of Change in Public and private institutions. (Several workshops held in different institutions).
 - “Analysis and Design of Slopes and Earthfill Dams Under Static and Dynamic Loading”, March 1997. (4 days lectures). Invited by Jordan University of Science and Technology Alumni, Amman-Jordan.
 - “Foundation Design on Expansive Soils”, September 1997. (3- day lectures). Invited by the Jordanian Engineers Association, Irbid-Jordan.
 - “Foundation Design on Expansive Soils”, November 1997. (3-day lectures). Prepared by the Consulting Center at Jordan University of Science and Technology, Irbid-Jordan.
 - “One Day Seminar in Geotechnical Engineering”, December 1997. Prepared by Jordan University of Science and Technology Alumni, Irbid-Jordan.
 - “Dams in Jordan, a perspective in 2020”, May 1, 1998. Invited by Jordanian scouts’ society with association with Jordan Environmental Society, Amman-Jordan.
 - “Water use and water saving devices in Jordan”, May 28, 1998. Invited by Jordanian Women Union with association with Jordan Environmental Society, Irbid-Jordan.
 - “State of Water in Jordan,” July 4, 1998. Invited by Jordan Environmental Society, Dana Reserve, Jordan.
 - “State of Water in Jordan”, July 7, 1998. Invited by Jordan Environmental Society, Muta University- Maan branch, Maan, Jordan.
 - “Methods for Encountering Water Deficit in Jordan,” July 16, 1998. Invited by Jordan Environmental Society, Amman, Jordan.
 - “Deterministic and Reliability Based Analysis and Design of Embankment and Slopes,” September 22, 1998. Invited by Jordanian Engineers Association, Amman, Jordan.
 - “Engineering Reliability in Geotechnical Engineering,” November 11, 1998. Invited by Jordanian Engineers Association, Amman, Jordan.
 - “Roller Compacted Concrete Dams a New Technology in Jordan,” December 17, 1998. Invited by Jordan University of Science and Technology Alumni, Amman, Jordan.
 - “Probabilistic Analysis of King Talal Dam Slopes,” May 18, 1999. The sixth engineering day at Jordan University of Science and Technology, Irbid, Jordan.
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Delivered Workshops

- “Overview of Environmental Public Awareness,” May 13, 1999. Invited by King Hussein Environmental Management Training Program, Amman, Jordan.
- “Environmental Public Awareness Programs,” May 15 - 19, 1999. Invited by King Hussein Environmental Management Training Program, Amman, Jordan.
- “Developing competencies for managing change,” May 14-24, 2000. Toward democratic thinking project, organized by JUST and The British Council/Jordan. Funded by European Union, Held at JUST, Jordan.
- “Laboratory Testing for Engineering Soil Properties & Computer Interpretation of Test Results,” February 2001. (4-day lectures and lab work). Prepared by the Consulting Center at Jordan University of Science and Technology, Irbid-Jordan.
- “Slope Stability Analysis Using Stable 6.0 Computer Program,” April 2001. (3-day lectures and computer application). Prepared by the Consulting Center at Jordan University of Science and Technology, Irbid-Jordan.
- “Training of Trainers Workshop,” July 1-5, 2000. Prepared by Civil Society Development Center at JUST and The British Council/Jordan, funded by British Embassy, Held at JUST, Jordan.
- Needs Assessment for training needs of JUST Academic Staff, organized by Civil Society Development Center at JUST. Funded by the British Embassy/Jordan, (12 Nov., 2001). JUST, Jordan.
- Needs Assessment for training needs of JUST Administrative Staff, organized by Civil Society Development Center at JUST. Funded by the British Embassy/Jordan, (13 Nov., 2001). JUST, Jordan.
- Needs Assessment for training needs of JUST Students, organized by Civil Society Development Center at JUST. Funded by the British Embassy/Jordan, (15 Nov., 2001). JUST, Jordan.
- Leadership Skills workshop, organized by Civil Society Development Center at JUST. (7-11 April, 2002). JUST, Jordan.
- Leadership Skills workshop, organized by Civil Society Development Center at JUST. (20-22 May, 2002). JUST, Jordan.
- Political Development Enhancement in the Jordanian Universities, student workshops, part of the First Jordanian Collegiate Conference, organized by Civil Society Development Center at JUST. (December 14, 2003 – January 4, 2004). JUST, Jordan.
- Political Development Enhancement in the Jordanian Universities, universities Alumni workshop, part of the First Jordanian Collegiate Conference, organized by Civil Society Development Center at JUST. (January 5, 2004). JUST, Jordan.
- Political Development Enhancement in the Jordanian Universities, Deans of Student affairs workshop, part of the First Jordanian Collegiate Conference, organized by Civil Society Development Center at JUST. (January 7, 2004). JUST, Jordan.
- Political Development Enhancement in the Jordanian Universities, Political Specialists workshop, part of the First Jordanian Collegiate Conference, organized by Civil Society Development Center at JUST. (January 6, 2004). JUST, Jordan.
- Youth Initiatives Planning Workshop for Students of Jordanian Universities, organized by Civil Society Development Center at JUST. (December 23, 2004). JUST, Jordan.
- "Environment and Citizenship" workshop, part of the National Youth Meeting over Environment, organized by Higher Council for Youth and Civil Society Development Centre as part of the National Youth Strategy. (February 24 – 27, 2005). Amman Youth Hostel, Amman Jordan.
- "Effective Media in Civil Society" workshop, as part of Youth Media Open Day, organized by Civil Society Development Centre. (April 19, 2005) JUST, Jordan.
- Educational Reform workshop, part of Second North Meeting, Organized by Civil Society Development Centre, Konrad Adenauer Foundation, and National Forum for Youth and Culture. (May, 26 – 28, 2005). JUST, Jordan.
- "The Role of Civil Society Organizations in Media" workshop, part of the National Youth Meeting over Media, organized by Higher Council for Youth and Civil Society Development Centre as part of the National Youth Strategy. (July 14 – 16, 2005). Amman Youth Hostel, Amman Jordan.
- Educational Reform, part of Reform and Development Workshop, organized by Civil Society Development Centre and Konrad Adenauer Foundation. (July 25 – 28, 2005). JUST, Jordan.
- The Role of Media in Parliamentary Elections, part of the Third North Forum entitled “Jordanian Parliamentary Elections: Future Readings by Jordanian Youth”, organized by Civil Society Development Centre, Konrad Adenauer Foundation, and National Forum for Youth and Culture. (March 2 – 4, 2006).
- “Flood wave Propagation and Infiltration in Desert Regions” workshop, organized by Faculty of Engineering / Al al-Bayt University and USAID. (June 29-30, 2013).

International Registration Certificates

Engineering in Training (EIT) | State of Ohio – USA

National & International Organizations Memberships

Jordan University of Science and Technology Alumni Club, President 1997 to Present

American Society of Civil Engineers, ASCE, Associate Member

National Society of Professional Engineers, Member

Jordan Environmental Society, JES, Member

Mediterranean Eco-Media Network, Member

Friends of Plants Society, Member

Jordanian Engineering Association, Member

Al-Mohandes Al-Ordony Journal, Editorial Board Member

Youth Arab Students Association, Social Chair (1987 to 1992)

Jordan University of Science and Technology. Alumni Club, Secretary and Social Chair (1992 to 1993)

Jordan University of Science and Technology. Alumni Club, Vice President (1997)

National Environmental and Wildlife Society, Treasurer (1997 to 1999)

Publications

1. **Nusier, O.K.**, Rabab'ah, S.R., and Alomari, B. (2023). " Effect of Using Water Treatment Sludge on Geotechnical Properties of Cement Kiln Dust-Stabilized Expansive Soil." *Bulletin of Engineering Geology and the Environment*. Under Review.
2. Alawneh, A.S., **Nusier, O.K.**, Othman, M.M., Sharo, A.A., Abdallah, K.M. and Lagaros, N.D (2023) "BASE CAPACITY OF OPEN-ENDED PILES DRIVEN IN SAND." *Infrastructures*. Under Review.
3. Rabab'ah, S.R., **Nusier, O.K.**, and Fawaier, I.H. (2022). "Effect of Adding Zeolitic Tuff on Geotechnical Properties of Lime-Stabilized Expansive Soil." *Transportation Geotechnics*. Under Review.
4. **Nusier, O.K.**, Rabab'ah, S.R., and Fawaier, I.H. (2022). "Soil Stabilization of Expansive Soil Using Burned Olive Waste Ash and Lime." *Transportation Geotechnics*. Under Review.
5. **Nusier, O.K.**, Alawneh, A.S., Abo Eid A. and Salman H. (2022) "Analysis of Base Resistance of Smooth and Rough Model Open-Ended Piles Driven in Loose Sand." *International Journal of Physical Modelling in Geotechnics*. Under Review.
6. **Nusier, O.K.**, Alawneh, A.S., Salman H. and Abo Eid A. (2022) "Axial Capacity of Smooth and Rough Driven Model Open-Ended Piles in Loose Sand." *International Journal of Physical Modelling in Geotechnics*. Under Review.
7. Alawneh, A.S., **Nusier, O.K.** and Bani-Khalaf A.M. (2022) "Granular Pile Anchor Technique to Control Heave of Light Weight Structure Over Expansive Clays." *Case Studies in Construction Materials*. Under Review.
8. Alawneh, A.S., **Nusier, O.K.** and Al-Masoud A.M. (2023) "The Efficiency of the Granular Pile Anchor Foundation System in Improving the Pullout Resistance of Irbid Expansive Clayey Soil: An Experimental Investigation." *Journal of building Engineering*. Under Review.
9. Ajour, M.N., Abu-Hamdeh, N.H., **Nusier, O.K.**, AL-bonsrulah, H.A. and Elamin, A.A. (2023) "Simulation of unsteady process of converting liquid to solid phase inside a solar storage system utilizing nanoparticles." *Journal of Energy Storage*, Volume 73, Part A, 2023, 108841, ISSN 2352-152X, <https://doi.org/10.1016/j.est.2023.108841>.

10. Milyani, A.H., Al-Ebrahim, A.M., Attar, E.T., Abu-Hamdeh, M.H., Mostafa, M.E., **Nusier, O.K.**, Karimipour, A. and Le, B.N. (2023) "Artificial intelligence optimization and experimental procedure for the effect of silicon dioxide particle size in silicon dioxide/deionized water nanofluid: Preparation, stability measurement and estimate the thermal conductivity of produced mixture." *Journal of Materials Research and Technology*, Volume 26, 2023, Pages 2575-2586, ISSN 2238-7854, <https://doi.org/10.1016/j.jmrt.2023.08.074>.
11. Rawa, M.J.H., Abu-Hamdeh, N.H., **Nusier, O.K.**, Shboul, B., AlQemlas, T. and Mahmoud, S. (2023) "The impact of using twisted double tube of innovative turbulator on the efficiency of a flat panel solar collector with geometric optimization." *Journal of the Taiwan Institute of Chemical Engineers*, Volume 148, 2023, 104831, ISSN 1876-1070, <https://doi.org/10.1016/j.jtice.2023.104831>.
12. Hasan, P.M.Z., Abu-Hamdeh, N.H., **Nusier, O.K.**, Hussin, A.M. and Saad, H.A. (2023) "Energy storage analysis during melting in presence of metallic fins via numerical method." *Journal of Energy Storage*, Volume 66, 2023, 107454, ISSN 2352-152X, <https://doi.org/10.1016/j.est.2023.107454>.
13. Melaibari, A.A., J., Abu-Hamdeh, N.H., Daqrouq, K.O., Alkhateeb, A.F., **Nusier, O.K.**, Saad, H.A. and Musa, A. (2023) "Thermal Management of Storage Unit Reporting Unsteady Physical Behavior of NEPCM." *International Journal of Modern Physics B*, 2023, 2450014, <https://doi.org/10.1142/S0217979224500140>.
14. Al-Rousan, R.Z., Nusier, O.K., Abdalla, K.M., Alhassan, M.S., Vougioukas, E.A., Stamos, A.A. and Lagaros, N.D. (2023) "Cyclic Behavior of FRP Strengthened Beam-Column Joints under Various Concrete Damage Levels." *Construction Materials*, 2023, 3, 38-61. <http://doi.org/10.3390/constrmater3010004>.
15. **Nusier, O.K.**, Alawneh, A.S. and Alsuqaier A. (2022) "The Efficiency of the Granular Pile Anchor Foundation System in Reducing the Heave of Irbid Expansive Clayey Soil: An Experimental Investigation." *Case Studies in Construction Materials*, Volume 18, 2023, e01846, ISSN 2214-5095, <https://doi.org/10.1016/j.cscm.2023.e01846>.
16. Li, Z., Leng, J., Abu-Hamdeh, N.H., Daqrouq, K.O., Musa, A. and **Nusier, O.K.** (2023) "Influence of lateral injection from the circular strut on mixing performance of hydrogen jet at supersonic combustion chamber." *International Communications in Heat and Mass Transfer*, Volume 140, 2023, 106543, <https://doi.org/10.1016/j.icheatmasstransfer.2022.106543>.
17. Sharo, A.A., Al-Sharaman, B.Y., Bani Baker, M., **Nusier, O.K.**, and Alawneh, A.S. (2022) "New Analytical Approach for Predicting the Load-Displacement Curve of Axially Loaded Piles Driven in Sand." *Case Studies in Construction Materials*, Volume 17, 2022, e01674, <https://doi.org/10.1016/j.cscm.2022.e01674>.
18. Asiri, S.A., Salilih, E.M., Alfawaz, K.M., Alogla, A.F., Sajadi, M.S. and **Nusier, O.K.** (2022) "Transient heat transfer analysis of serially connected array of phase change material in the thermal battery units with Al₂O₃ working Nano fluids." *Journal of Energy Storage*, Volume 53, 2022, 105184, <https://doi.org/10.1016/j.est.2022.105184>.
19. Asiri, S.A., Salilih, E.M., Alfawaz, K.M., Alogla, A.F., Sajadi, M.S. and **Nusier, O.K.** (2022) "Heat transfer analysis of a water/lithium-bromide vapor generator system used for battery thermal development." *Journal of Energy Storage*, Volume 53, 2022, 105118, <https://doi.org/10.1016/j.est.2022.105118>.
20. Asiri, S.A., Salilih, E.M., Alfawaz, K.M., Alogla, A.F., Abu-Hamdeh, N.H. and **Nusier, O.K.** (2022) "Improve the performance of renewable energy conversion and storage via ANN in a system of solar water heater with variable speed photovoltaic circulating pump." *Int J Energy Res.* 2022;1-17. <https://doi.org/10.1002/er.8268>.
21. Ajour, M.N., **Nusier, O.K.**, Abdual, M.J. and Hariri, F.A. (2022) "Utilizing innovative proportional-integral-derivative controllers to reduce solar air conditioning system energy demand." *Sustainable Energy Technologies and Assessments*, Volume 52, Part C, 2022, 102233, <https://doi.org/10.1016/j.seta.2022.102233>.

22. Alawneh, A.S., **Nusier, O.K.**, Bayan N. Jaraha and Lagaros, N.D. (2022) " Estimation of Friction Capacity of Driven Piles in Sand: Effect of Sand Dilation." *Proceeding of the 3rd Coordinating Engineering for Sustainability and Resilience, May 6th – May 9th, 2022, Irbid, Jordan, ISSN:2788-6204.*
23. Al-Rousan, R.Z., **Nusier, O.K.**, Abdalla, K.M., Alhassan, M.S. and Lagaros, N.D. (2022) "NLFEA of Sulfate Damaged Circular CFT Steel Columns Confined with CFRP Composites and Subjected to Axial and Cyclic Lateral Loads." *Buildings, Switzerland, 2022, 12, 296, <https://doi.org/10.3390/buildings12030296>.*
24. Sharo, A.A., Taammneh M.O., Alawneh, A.S., **Nusier, O.K.**, and Rabab'ah, S.R. (2022) "P-Wave Velocity of Limestone influenced by Saturation: Experimental Study." *International Review of Civil Engineering (I.R.E.C.E.) Vol. 13, no. 2, 2022, <https://doi.org/10.15866/irece.v13i2.20833>.*
25. Ajour, M.N., Abu-Hamdeh, N.H., **Nusier, O.K.**, and Sajadi M.S. (2022) "Developing a control program to reduce the energy consumption of nine cylindrical lithium-ion battery pack connected to a solar system by changing the distance between the batteries and the inlet and outlet of the air stream," *Journal of Energy Storage, Volume 49, 103997, 2022, 103997, ISSN 2352-152X, <https://doi.org/10.1016/j.est.2022.103997>.*
26. Abu-Hamdeh, N.H., Daqrouq, K.O., Karimipour A., and **Nusier, O.K.** (2022) "Thermal management of carbon-based dental laminate via additives carbon nanotube and hydroxyapatite in a vessel micro-flow based on the numerical/empirical data." *The European Physical Journal Plus, Volume 137, 137 (2022). <https://doi.org/10.1140/epjp/s13360-022-02366-7>.*
27. Muhyaddin J.H. Rawa, Nidal H. Abu-Hamdeh, Arash Karimipour, **Osama K. Nusier**, Ferial Ghaemi, Dumitru Baleanu, (2022) "Phase change material dependency on solar power plant building through examination of energy-saving, " *Journal of Energy Storage, Volume 45, 103718, 2022. 103718, ISSN 2352-152X, <https://doi.org/10.1016/j.est.2021.103718>.*
28. Mashhour A. Alazwari, Nidal H. Abu-Hamdeh, Ahmed Khoshaim, Ahmed I. Ashour, **Osama K. Nusier** and Arash Karimipour. (2021) "Effects of examine the phase change material through applying the solar collectors: exergy analysis of an air handling unit equipped with the heat recovery unit. " *Journal of Energy Storage. (Vol. 41 2021) 103002, ISSN 2352-152X, <https://doi.org/10.1016/j.est.2021.103002>.*
29. Rabab'ah, S.R., Taamneh, M.M., **Nusier, O.K.**, Abdallah, H.M., and Ibdah, L.A. (2021). "Effect of Adding Zeolitic Tuff on Geotechnical Properties of Lime-Stabilized Expansive Soil." *KSCE Journal of Civil Engineering. <https://doi.org/10.1007/s12205-021-1603-7>.*
30. Nidal Abu-Hamdeh, Rashad A. R. Bantan, **Osama K. Nusier** and Elias Mesfin Salilih. (2021) "Numerical study and artificial neural network modeling of the tube banks arrangement considering exergetic performance." *Journal of Thermal Analysis and Calorimetry. On line April, 2021, <https://doi.org/10.1007/s10973-021-10717-2>.*
31. Mashhour A. Alazwari, Nidal H. Abu-Hamdeh, **Osama K. Nusier** and Arash Karimipour (2021) "Vacancy defect influence on nanofluid flow and absorbed thermal energy in a nanochannel affected by Universal Force Field via composed approach of Embedded Atom Model / Molecular Dynamics Method. " *Journal of Molecular Liquids. Vol. 333 (2021) 115927, ISSN 0167-7322, <https://doi.org/10.1016/j.molliq.2021.115927>.*
32. Rashad A.R. Bantan, Nidal H. Abu-Hamdeh, **Osama K. Nusier** and Arash Karimipour (2021) "The molecular dynamics study of aluminum nanoparticles effect on the atomic behavior of argon atoms inside zigzag nanochannel. " *Journal of Molecular Liquids Vol. 331 (2021) 115714, ISSN 0167-7322, <https://doi.org/10.1016/j.molliq.2021.115714>.*
33. Alawneh, A.S., **Nusier, O.K.** and Atiyeh, M. (2019) "A new Approach for Estimating Capacity of Driven Piles in Sand Under Tensile Loading." *Jordan Journal of Civil Engineering, Vol. 13, issue 3, Jordan.*
34. Abdalla, K.M., Al-Rousan, R.Z., Obaidat M.T., **Nusier, O.K.**, Bani Hani, K. and Lagaros, N.D. (2019) "The Impact of Asphalt Wearing Surface Thickness on Response of Two-Span Continuous Cast-in-Place

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