Ziad Abu El-Rub, Ph.D. | Curriculum Vitae

PERSONAL INFORMATION

Name:	Ziad Abu El-Rub
Rank:	Associate Professor
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Email:	ziad.abuelrub@gju.edu.jo | zabuelrub@yahoo.com
GS:	https://scholar.google.com/citations?user=UrJWKdgAAAAJ&hl=en
RG:	www.researchgate.net/profile/Ziad_Abu_El-Rub
LinkedIn	www.linkedin.com/in/ziad-abu-el-rub-0aa33513
ORCID:	http://orcid.org/0000-0003-4664-2132
Scopus:	https://www.scopus.com/authid/detail.uri?authorId=58672785800

KEY ACADEMIC MERTICS

- Publications: 18 peer-reviewed papers, 1 book (under submission), multiple conference papers
- Citations: ~2,000 | h-index: 12 (Google Scholar)
- Research Funding: USD 1.5M+ secured
- Courses Taught: 15+ undergraduate and postgraduate courses
- Thesis Supervision: MSc & BSc projects in catalysis, biomass energy, and sustainable technologies

CAREER SUMMARY

Dr. Ziad Abu El-Rub is a seasoned Chemical Engineer with over 20 years of experience in academia, research, and industry, specializing in biomass energy, gasification systems, and sustainable technologies. He currently serves as the Director of the Center for e-Learning and Academic Performance Improvement, Vice Dean of the School of Applied Medical Sciences, and Associate Professor at the German Jordanian University. Dr. Abu El-Rub holds a Ph.D. in Chemical Engineering from the University of Twente and has made significant contributions to research, securing over USD 1 million in funding, developing new academic programs, and establishing industry partnerships. His academic leadership includes the successful launch of MSc programs, accreditation processes, and green energy initiatives. Additionally, he has extensive experience in technical sales, business development, and project management in the petrochemical industry, having led strategic projects and collaborations in the MENA region. As a Certified Consultant Engineer and Certified Quality Evaluator, Dr. Abu El-Rub remains committed to advancing innovation, sustainability, and education through academic and industrial engagement.

EDUCATION

2002-2007	Ph.D. in Chemical Engineering University of Twente, the Netherlands Dissertation: Biomass char as an in-situ catalyst for tar removal in gasification systems Supervisor: Prof. Gerrit Brem
2000-2002	Master of Technological Design

University of Twente, the Netherlands
Thesis: High-temperature catalytic tar removal from producer gas of biomass-fueled gasifiers

1993-1998 B.Sc. in Chemical Engineering
University of Jordan, Jordan
Thesis: Plant design for biogas production from Amman's municipal solid waste
GPA: 3.48 /4.00 (Rank: 3rd)

LICENSES AND CERTIFICATION

2025 Certified Quality Evaluator
Higher Education Institutions Accreditation and Quality Assurance commission
Amman, Jordan

2018 Consultant Engineer (JCE) in Chemical Engineering
Jordan Engineers Association, Amman, Jordan
Awarded by the Jordan Higher Council for Professional Qualifications and Accreditation

2015 Professional Engineer (JPE) in Bioenergy Engineering
Jordan Engineers Association, Amman, Jordan
Awarded by the Jordan Higher Council for Professional Qualifications and Accreditation

ACADEMIC EXPERIENCE

Academic Positions

2025-Present Dean
School of Applied Medical Sciences, German Jordanian University, Jordan.

2024-2026 Director
Center for E-Learning and Academic Performance Improvement (CeLAPI), German Jordanian University, Jordan.

2024-2025 Vice Dean
School of Applied Medical Sciences, German Jordanian University, Jordan.

2025- 2026 Coordinator
DAAD Online GATE Program for the Pre-Year, German Jordanian University, Jordan.

2020-2022 Acting Department Head
Pharmaceutical and Chemical Engineering Department, German Jordanian University, Jordan.

- Program Development: Successfully launched a new MSc program in Pharmaceutical and Chemical Engineering, significantly increasing enrollment and program visibility.
- Industry Partnership: Developed a Dual Study track for the BSc program, forging strong industry partnerships and boosting student job placement rates.
- Accreditation Success: Led the ASIIN accreditation process for the BSc program, ensuring quality standards and enhancing program reputation.

2020 Train the Trainer

Pharmaceutical and Chemical Engineering Department, Beuth Hochschule für Technik Berlin, Germany

- Teaching Chemical Engineering Reaction

2016-2020 Dean Assistant for Industrial Relations
Schools of Applied Medical Sciences, German Jordanian University, Jordan.

- Chair, GJU Industrial Relations Committee: Fostered collaboration with industry partners, developing cooperative agreements encompassing training, co-teaching, co-supervision, workshops, and funding opportunities.

Academic Rank

2024-Present Associate Professor
Pharmaceutical and Chemical Engineering Department, German Jordanian University, Jordan.

2022-2024 Associate Professor
Chemical Engineering Department, American University of the Middle East (AMU), Kuwait.

- Lead scholarly research, teaching, and student advising at both undergraduate and graduate levels.
- Chair, Chemical Engineering Labs Committee: Spearheaded lab upgrades, modernized safety protocols, and enhanced the student learning experience.
- Founder and Advisor, Green Energy Club: Established and led a student organization focused on green energy initiatives, fostering student engagement and increasing awareness of sustainable practices.

2021-2023 Associate Professor
Pharmaceutical and Chemical Engineering Department, German Jordanian University, Jordan

2012-2021 Assistant Professor
Pharmaceutical and Chemical Engineering Department, German Jordanian University, Jordan.

- Led scholarly research, teaching, and student advising at both undergraduate and graduate levels.
- Research Funding Success: Secured over USD 1 million in research grants, supporting innovative projects and contributing to the advancement of the field.
- Publications: Authored and co-authored numerous peer-reviewed publications in leading academic journals.

TEACHING EXPERIENCE

2022-Present American University of the Middle East (AMU), *Department of Chemical Engineering*

- Chemical Reaction Engineering
- Chemical Engineering Lab (Aspen Hysys Simulation)
- Design and Analysis of Processing Systems
- Transforming Ideas to Innovation I
- Chemical Engineering Sophomore Seminar

2012-2022 **German Jordanian University**, Department of Pharmaceutical and Chemical Engineering:

- Chemical Reaction Engineering
- Fluid, Heat and Reaction Engineering Lab
- Pharmaceutical Plant Design
- Industrial Processes Management
- Chemical Engineering Economics
- Fluid Mechanics for Chemical and Medical Engineers
- Introduction to Pharmaceutical and Chemical Engineering
- Principles of Chemical Engineering
- Graduation Project I
- Graduation Project II
- General Chemistry & Lab
- Separation Processes Lab
- Shale Oil Production Processes
- Introduction to Oil and Gas Production
- Technical Writing

INDUSTRY EXPERIENCE

2011 –2012 Regional Manager for the Middle East and North Africa
ASCOM Separation Company, the Netherlands.

- Sales Leadership: Successfully achieved sales targets through the development of process designs and technical sales strategies for ASCOM's separation technologies in the MENA region.
- Technical Expertise: Led the design and qualification of advanced separation equipment for crude oil, water, gas, and sand applications.

2007 – 2010 Business Development Manager
PetroLink Holding Company, Kuwait

- Project Management: Spearheaded a project to establish a US$120 million polyethylene terephthalate (PET) plant in Kuwait, overseeing technical studies and ensuring successful project initiation.
- Strategic Partnerships: Collaborated with investment companies and technology developers to assess the market, technical, and commercial viability of various energy and petrochemical projects.

1998 –1999 Quality Control Manager
National Paints Factories, Jordan

- Managed quality control labs and implemented advanced testing methods, ensuring product quality and compliance with industry standards.

HONORS AND RECOGNITION

2024	Third Place Award for Outstanding Graduation Projects in Chemical Engineering, AUM Innovation Fair 2024, Kuwait.
2019	Distinguished Industrial Professor Award of excellence, German Jordanian University.
2018	Best Presentation Award, 3rd International Conference on New Energy and Applications (ICNEA 2018), Singapore.
2017	• Second Prize, Industrial Graduation Projects Competition (Chemical Engineering), Jordan Engineers Association and Amman Chamber of Industry. • Certificate of Excellence for Distinguished Academic Performance, German Jordanian University.
2016	• First Prize –Graduation projects competition 2016 – Chemical Engineering, organized by the Jordan Engineers Association and Amman Chamber of Industry, Jordan. • USD 100,000 fund for the Research project: Elimination of Tar produced from biomass gasification using Jordanian low-cost mineral catalysts, German Jordanian University. • Certificate of excellence for distinguished academic performance for the year 2015/2016, German Jordanian University.
2015	USD 783,000 Grant for Erasmus+ Project: "Vocational training Center for undergraduate university students and teachers in Jordan."
2013-2016	Industrial Experience Allowance Award, German Jordanian University.

RESEARCH

Research Interests

1. Catalysis: Catalytic tar removal in biomass conversion processes
2. Biomass energy conversion: Thermochemical (pyrolysis, gasification) and biochemical (anaerobic digestion)
3. Oil shale pyrolysis: Thermogravimetric Analysis, kinetics and modeling
4. Wastewater treatment: Membrane distillation
5. Renewable energies: Phase change materials, solar chimney power plants, insulation materials
6. Transforming higher education through AI and educational technology

Thesis Supervision & Examination

Examiner – MSc Theses

- Mays Ababneh: "Melting Behavior of Phase Change Material During Heating and Cooling Processes", Chemical Engineering, Jordan University of Science and Technology, 2025.
- Hamzeh Al-Omari: "Olive mill wastewater treatment using membrane technology", Chemical Engineering, Jordan University of Science and Technology, 2019.
- Fadi Alrawash: "Treatment of olive mill wastewater using membrane distillation", Chemical Engineering, Jordan University of Science and Technology, 2019.

Supervisor - MSc Theses

- Esraa Alsaleh: Optimization of Low-Cost Jordanian Minerals as Catalysts for Enhanced Tar Removal in Biomass Gasification Systems" , Pharmaceutical & Chemical Engineering Depatment, German Jordanian University, Oct. 2024-Present.

- Mathijs Snippert: "Characterization of biomass char as a catalyst for tar reduction in a fixed bed reactor" (Thermal Engineering Laboratory, University of Twente, 2004).
- Jorke Jellema: "Catalytic Tar Reduction from Biomass Gasification Gas using Wood Char as a Catalyst" (Thermal Engineering Laboratory, University of Twente, 2003).

PUBLICATIONS

Peer-reviewed Journals (Selected, 1900+ Google Scholar Citations)

1. **Ziad Abu El-Rub,** Nadine Nassar, Noor Shuqum, and Rama Al-Juaniadi. (2025). Recycling Technologies for Lithium-Ion Batteries in Electric Vehicles: A Critical Review. Jordanian Journal of Engineering and Chemical Industries. 8 (2), 176-190.
2. Emad Abdelsalam, **Ziad Abu El-Rub**, Malek Alkasrawi, Dana Ibrahim, Ahmad Azzam, Tareq Salameh, Abdul Ghani. (2023). A Novel Design of a Twin-Chimney Solar Power Plant for Power and Distilled Water Production. Thermal Science and Engineering Progress. 46, 102231. DOI.
3. **Ziad Abu El-Rub**, Dina Halawa, Iman Alqudah, Abdullah Nasr, Muhammad Naqvi. (2023). Natural zeolite catalyst for tar removal in biomass gasification Systems: Kinetics and effectiveness evaluation. Fuel. 346, 128393. DOI
4. **Ziad Abu El-Rub**, Rajwa Abu Hassan, Rami Alnajjar, Malek Alkasrawi. (2022). Kinetics of Natural Kaolinite as a Catalyst for Toluene Dry Reforming. Jordanian Journal of Engineering and Chemical Industries. 5(3), 71-77.
5. Samer Al-Gharabli, **Ziad Abu El-Rub**, Eyad M. Hamad, Wojciech Kujawski, Zuzanna Flancc, Katarzyna Pianka, Waldemar Jankowski, Joanna Kujawa. (2022). Toward anti-fouling properties and enhanced performance in separation process - carbon nanotubes - PVDF hybrids. Applied Surface Science. 602, 154341.DOI.
6. Mohammad F. Khanfar, Taleen S. Kopti, Natalie O. Gharaibeh, and **Ziad Abu El-Rub**. (2021). Differential pulse voltammetry as an alternative method for tracking Hydrochlorothiazide electrolytic degradation. Jordanian Journal of Engineering and Chemical Industries. 4(3), 70-77. DOI
7. Samer Al-Gharabli, **Ziad Abu El-Rub**, Eyad M.Hamad, Wojciech Kujawski, Zuzanna Flanc, Katarzyna Pianka and Joanna Kujawa. (2021). Surfaces with Adjustable Features—Effective and Durable Materials for Water Desalination. International Journal of Molecular Sciences. 22, 11743.DOI.
8. Eyad M. Hamad , Aseel Khaffaf, Omar Yasin, **Ziad Abu El-Rub**, Samer Al-Gharabli, Wael Al-Kouz, and Ali Chamkha. (2021). Review of nanofluids and their biomedical applications. Journal of Nanofluids. 10, 463–480. DOI.
9. Muhammad Tawalbeh, Amani Al-Othman, Tareq Salamaha, Malek Alkasrawi, Remston Martis, **Ziad Abu El-Rub**. (2021). A critical review on metal-based catalysts used in the pyrolysis of lignocellulosic biomass materials. Journal of Environmental Management. 299, 113597. DOI.
10. **Ziad Abu El-Rub**, Joanna Kujawa, Samer Al-Gharabli. (2020). Pyrolysis Kinetic Parameters of Omari Oil Shale using Thermogravimetric Analysis. Energies 13 (16), 1-13. DOI.
11. **Abu El-Rub, Z.** (2019). TGA and BET Characterization of Spent Oil Shale as a Catalyst in Biomass Tar Removal Applications. International Journal of Smart Grid and Clean Energy 2019, 8(6)680-687.DOI.

12. **Ziad Abu El-Rub**, Joanna Kujawa, Esra'a Albarahmiah, Nafisah Rifai, Fathieh Qaimari, Samer Al-Gharabli. (2019). High Throughput Screening and Characterization Methods of Jordanian Oil Shale as a Case Study. Energies 2019, 12(16), 3148. DOI.

13. **Ziad Abu El-Rub**, Eddy Bramer, Samer Al-Gharabli, and Gerrit Brem. (2019). Impact of char properties and reaction parameters on naphthalene conversion in a macro-TGA fixed char bed reactor. Catalysts 2019, 9, 307.DOI.

14. Samer Al-Gharabli, Eyad Hamad, Munib Saket, **Ziad Abu El-Rub**, Hassan Arafat, Wojciech Kujawski, and Joanna Kujawa. (2018). Advanced material - ordered nano-tubular ceramic membrane covalently capped with single wall carbon nanotubes. Materials 2018, 11(5), 739. DOI.

15. Samer Al-Gharabli, Wojciech Kujawski, **Ziad Abu El-Rub**, Eyad M. Hamad, Joanna Kujawa. (2018). Enhancing membrane performance in removal of hazardous VOCs from water by modified fluorinated PVDF porous material. Journal of Membrane Science, 556, 214-226.DOI.

16. **Abu El-Rub, Z.,** Brem, G., & Bramer, E. A. (2015). Single Char Particle Model for Naphthalene Reduction in a Biomass Gasification System. Biomass and Bioenergy, 72, 19-27.DOI.

17. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2008). Experimental comparison of biomass chars with other catalysts for tar reduction. Fuel, 87(10–11), 2243-2252.DOI.

18. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2004). A Review of Catalysts for Tar Elimination in Biomass Gasification Processes. Ind. Eng. Chem. Res., 43, 6911-6919.DOI.

Book

19. Abu El-Rub, Z. and Al-halhouli, A. (2024). The Smart University: A Handbook for Higher Education in the Age of AI (Under Submission).

Conference papers

20. **Abu El-Rub, Z.** (2018). Characterization of a spent-oil shale as a catalyst for tar removal. In: 2018 3rd International Conference on New Energy and Applications (ICNEA 2018), Singapore

21. **Abu El-Rub, Z.**, Kähler, B., Al-Khatib, J. (2017). University-Industry Collaboration: A Case Study from the German Jordanian University. In: 3rd MENA Higher Education Leadership Forum, Dubai, UAE.

22. Taftanazi, Y., Neumann, H., Burger, D., Hagelstein, G., **Abu El-Rub, Z.**, Gschwander, S. (2017), Stability study of Phase Change Material between 100 °C and 200 °C. Paper presented at the 8th Jordan International Chemical Engineering Conference, Amman, Jordan.

23. **Abu El-Rub, Z.**, Brem, G., Bramer, E.A. (2016). Parameters affecting the removal of naphthalene over fixed biomass char bed. In: Venice 2016, Sixth International Symposium on Energy from Biomass and Waste, CISA, Venice, Italy. (ISBN 978-88-6265-009-0).

24. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2016). Naphthalene Removal Experiments over a Fixed Bed of Biomass Char. Paper presented at the 5th Global Conference on Renewables and Energy Efficiency for Desert Regions (GCREEDER 2016), Amman, Jordan. Link

25. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2015). Real Tar Removal over Fixed Bed of Biomass Char. Paper presented at the 23rd European Biomass Conference and Exhibition, Vienna, Austria.

26. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2014). Formulation of a Single Char Particle Model for naphthalene Removal in Biomass Gasification. Paper presented at the 7th Jordan International Chemical Engineering (JIChE 07) Conference, Amman, Jordan.

27. Al-Gharabli, S. I., **Abu El-Rub, Z.**, & Khanfar, M. F. (2014). High Throughput Screening of Oil Content in Jordanian Oil Shale Using ATR-FTIR and Refractive Index Techniques. Paper presented at the 7th Jordan International Chemical Engineering (JIChE 07) Conference, Amman, Jordan.

28. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2004, 30 Aug to 2 Sep). Modeling of Tar Reduction in Biomass Gasification Using Biomass Char as a Catalyst. Paper presented at the Science in Thermal and Chemical Biomass Conversion, Victoria, Vancouver Island, BC, Canada.

29. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2004, 10-14 May). Tar Reduction in Biomass Gasification Using Biomass Char as a Catalyst. Paper presented at the Proceeding of Conference and Technology Exhibition on Biomass for Energy, Industry and Climate Protection, Rome.

30. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2003, 2 September - 5 September). Tar Removal in Fixed Bed with Application to Biomass Gasification. Paper presented at the International Nordic Bioenergy 2003 Conference, Proceeding of an Expert Meeting, Jyvaskyla, Finland.

31. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2002, 17-21 June). Removal of Naphthalene as the Model Tar Compound on Calcined Dolomites, Olivine and Commercial Nickel Catalyst in a Fixed Bed Tubular Reactor. Paper presented at the 21st European Conference for Energy, Industry and Climate Protection, Amsterdam, The Netherlands.

32. **Abu El-Rub, Z.**, Bramer, E. A., & Brem, G. (2002, 30 September - 1 October 2002). Tar Removal in an Entrained Flow Cracker (EFC) with Application to Biomass Gasification. Paper presented at the Pyrolysis and Gasification of Biomass and Waste, Strasbourg, France.

Conference Presentations

- **Abu El-Rub, Z.** and **Khalifeh, A.** (2025). *From Experiment to Strategy: A University-Wide Model for Ethical Generative AI Integration in Smart Learning.* Keynote speech presented at the **2025 International Conference on Smart Learning Courses (IEEE SCME 2025)**, Smart University College for Modern Education, Hebron, Palestine (delivered online), July 9, 2025

- **Abu El-Rub, Z.,** Abu Hassan, R., Alnajjar, R. (2021). Characterization of Spent Oil Shale as a Catalyst for Tar Removal. In: 2021 Ninth Jordan International Chemical Engineering Conference (JIChEC9, 2021), Amman, Jordan.

- **Abu El-Rub, Z.** (2018). *Characterization of Spent Oil Shale as a Catalyst for Tar Removal.* In: 2018 3rd International Conference on New Energy and Applications (ICNEA 2018), Singapore.

- **Abu El-Rub, Z.,** Kähler, B., Al-Khatib, J. (2017). *University-Industry Collaboration: A Case Study from the German Jordanian University*. In: 3rd MENA Higher Education Leadership Forum, Dubai, UAE.

- **Abu El-Rub, Z.** "Dissemination and Implementation Lecture for VTC Project", 6th global conference on Renewables and Energy Efficiency for Desert Regions (GCREEDER-2018), 3-5 Apr 2018, Amman, Jordan.

- Taftanazi, Y., Neumann, H., Burger, D., Hagelstein, G., **Abu El-Rub, Z.,** Gschwander, S. (2017), *Stability study of Phase Change Material between 100 °C and 200 °C*. Paper presented at the 8th Jordan International Chemical Engineering Conference, Amman, Jordan.

- **Abu El-Rub, Z.** "Removing Model Tar Component over a Fixed Bed of Biomass Char", International Conference of Young Scientists on Innovative Applied Renewable Energy Researches, 18-20 May 2014, German Jordanian University, Amman, Jordan

- **Abu El-Rub, Z.**, Bramer, E.A., Brem, G., "Formulation of a Single Char Particle Model for naphthalene Removal in Biomass Gasification" published in the 7th Jordan International Chemical Engineering (JIChE 07) Conference, Amman, Jordan, 4-6 Nov. 2014

- **Abu El-Rub, Z.,** "Oil Shale Retorting Technologies –Jordanian Perspective", Chemical Engineering Scientific Day, 8 May 2014, Al-Huson College – Al-Balqa University, Irbid, Jordan.

- Vilas S. Koleshwar, Khaled A. Al-Yousef, R. Schook, Z. Abu El-Rub, "De-bottlenecking of Produced Water Treatment in Mature Heavy Oil Fields" Oil and Gas Water Management: From Reservoir to Reuse/Disposal, 20 – 21 March 2012, Intercontinental Hotel, Al-Khobar, Saudi Arabia
- **Abu El-Rub, Z.,** "Inline Desander Qualification", 2nd Annual 2012 Global Sand Management and Control Workshop, 27 Feb-01 Mar 2012, Dubai, UAE.
- Vilas S. Koleshwar, Khaled A. Al-Yousef, R. Schook, **Z. Abu El-Rub**, "De-bottlenecking of Produced Water Treatment in Mature Heavy Oil Fields", 4th Annual 2011 Global Produced Water Management, 24-28 Oct. 2011, Istanbul, Turkey.
- **Abu El-Rub, Z.**, Bramer, E.A., Brem, G., Tar removal using biomass char as a catalyst, Biomass AIO day, held at Wageningen UR, Thursday 29th September 2005.
- **Abu El-Rub, Z.**, Bramer, E.A., Brem, G., Tar reduction using char as a catalyst, Biomass Conversion Symposium, TU Eindhoven/TDO, 11 March 2005.
- **Abu El-Rub, Z.**, Bramer, E.A., Brem, G., High-Temperature Catalytic Tar Removal from Producer Gas of Biomass Fueled Gasifiers, Netherlands Process Technology Symposium (NPS4), 26-27 Oct. 2004, Veldhoven, The Netherlands.
- **Abu El-Rub, Z.**, Bramer, E.A., Brem, G., High-Temperature Catalytic Tar Removal from Producer Gas of Biomass Fueled Gasifiers, Netherlands Process Technology Symposium (NPS3), 28-29 Oct. 2003, Veldhoven, The Netherlands.

Media Publications – TalabaNews.net

Author of a series of opinion and analysis articles published in Talaba News (طلبة نيوز للإعلام الحر), a Jordan-based independent electronic newspaper focused on education, youth issues, and academic development.

Selected Articles:

- "الجامعات والتصنيفات العالمية: بين لهاث السمعة وضياع الرسالة", July 9, 2025
- "الجيل ألفا قادم: هل جامعاتنا مستعدة؟", July 3, 2025
- "التعليم المهني والتقني في الأردن: رافعة للتنمية وسوق العمل", June 28, 2025
- "الذكاء الاصطناعي والتعليم الأكاديمي: من التحدي إلى الفرصة", May 5, 2025
- "الشهادات الصغرى والاعتراف بالتعلم المسبق", February 7, 2025

(Full list available upon request or at TalabaNews.net)

FUNDING

Active Grants

- Empowering Jordanian Candidates for the International Labour Market
  - Funding Source: Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH (German Corporation for International Cooperation)
  - Role: Principal Investigator
  - Budget: € 306,000
  - Period: 1-7-2025 to 31-10-2026
- International Network for Future Universal Skills Education (INFUSE)
  - Funding Source: DAAD – German Academic Exchange Service

    - Role: GJU Expert for Micro-Credentials / Institutional Lead (SAMS & CeLAPI)
    - Grant Type: International academic cooperation, mobility funding, and bootcamp implementation support
    - GJU Budget: €13,000 implementation support + mobility grants and travel funding
    - Duration: 2026–2028
- Bologna for Science Education in Palestine and Jordan (BASE)
    - Funding Source: Erasmus+ Capacity Building in Higher Education (CBHE)
    - Role: Senior Researcher / GJU Team Member
    - Institutional Budget (GJU): €80,000
    - Coordinator: An-Najah National University (Palestine)
    - Duration: Nov 2024 – Oct 2027

Submitted/Pending Grants

- Fostering Resilient Academic Systems through Micro-Credentials and Recognition of Prior Learning for Employability (FRME)
    - Funding Source: ERASMUS-EDU-2025-CBHE - Strand3
    - Role: Principal Investigator
    - Institutional Budget (GJU): €100,000
    - Duration: 36 months
- NOURISH – Collaborative Industry-Based Curriculum for Interdisciplinary Innovation in Nutrition, Agriculture, and Nutraceuticals
    - Funding Source: Erasmus+ Capacity Building in Higher Education (CBHE)
    - Role: Senior Researcher / GJU Team Member
    - Institutional Budget (GJU): €100,000
    - Duration: 2026–2029
- PURE – Developing an Innovative Vocational Diploma in Natural Cosmetics and Green Entrepreneurship in Higher Education
    - Funding Source: Erasmus+ Capacity Building in Higher Education (CBHE)
    - Role: GJU Team Member / Academic Expert
    - Institutional Budget (GJU): €83,000
    - Duration: 2026–2029

Closed Grants (Selected)

- Elimination of Tar produced from biomass gasification using Jordanian low-cost mineral catalysts
    - Funding Source: German Jordanian University
    - Role: Principal Investigator
    - Amount: USD 100,000
    - Duration: 2016-2019

- Vocational training Center for undergraduate university students and teachers in Jordan
  - Funding Source: ERASMUS+
  - Role: Coordinator (German Jordanian University)
  - Total Budget: USD 783,000
  - Duration: 2015-2018

- Experimental & Economic Evaluation of a Designed Machine for Converting WCO into Biodiesel
  - Funding Source: KADDB and KAFD
  - Role: Supervisor (BSc Graduation Project)
  - Amount: USD 7,000
  - Duration: 2015-2016

- Investigation of the effect of heating rates on the BET surface area of Jordanian minerals
  - Funding Source: German Jordanian University
  - Role: Supervisor (BSc Graduation Project)
  - Amount: USD 700
  - Duration: 2017-2019

- Kinetics of toluene dry reforming reaction using Jordanian zeolite as a catalyst
  - Funding Source: German Jordanian University
  - Role: Supervisor (BSc Graduation Project)
  - Amount: USD 850
  - Duration: 2021-2022

UNIVERSITY SERVICE

German Jordanian University (GJU), Jordan

2024-Present	Member of Students' Evaluation of Teaching Committee
2024-Present	Head of the University Facilities Rental Regulations Committee
2024-Present	Member of the University Council
2021-2022	Member, Study Plan Committee (BSc Pharmaceutical and Chemical Engineering Program)
2020-2022	Member, Committee for Establishing MSc Program in Pharmaceutical and Chemical Engineering
2018-2021	Head, General Safety Committee (School of Applied Medical Sciences)
2015-2018	GJU Coordinator, VTC Erasmus+ Project
2016-2021	Head, GJU Industrial Relations Committee
2014-2022	Liaison Officer, GJU Training Center
2014-2015	Member, Faculty of Applied Medical Sciences Council
2014-2020	Graduation Projects Coordinator
2013-2014	Member, German Jordanian University Council

American University of the Middle East (AUM), Kuwait

2023 - 2024 Head of Labs Committee, Chemical Engineering Department.

2023 Head of Green Energy Club.

PROFESSIONAL ACTIVITIES

Conference & Workshop Leadership

2023 Member, International Advisory Board, 3rd BAU International Oil Shale Conference (BAU-OSC-3), Amman, Jordan.

2021
- Member, Technical Program Committee, 3rd International Conference on New Energy and Applications (ICNEA 2018), Singapore.
- Member, Organizing Committee, Second International Oil Shale Conference, Amman, Jordan.

2018
- Member, Technical Program Committee, 3rd International Conference on New Energy and Applications (ICNEA 2018), Singapore.
- Member, Organizing Committee, Second International Oil Shale Conference, Amman, Jordan.

2013-2014 Vice President, Preparatory Committee, 7th Jordan International Chemical Engineering (JIChE 07) Conference, Amman, Jordan.

2013 Chair, Workshop "Oil Shale in Jordan: Reality, Potential, and Limitations," Jordan Engineers Association, Amman, Jordan.

2012 Steering Committee Member, 2nd Annual Global Sand Management and Control Workshop, Dubai, UAE.

2011 Steering Committee Member, 4th Annual Global Produced Water Management Workshop, Istanbul, Turkey.

Professional Society Engagement

2018-Present Board Member, Chemical Engineering Division, Jordan Engineers Association (JEA), Amman, Jordan.

2016-2017 Head, JEA Branches Committee for Workshops, Jordan Engineers Association, Amman, Jordan.

2016-2022 Advisory Board Member, Engineering Training Center, Jordan Engineers Association, Amman, Jordan.

2015-2018 Board Member, Chemical Engineering Division, Jordan Engineers Association, Amman, Jordan.

2014-2015 Member, Chemical Engineering Graduation Projects Evaluation Committee, Jordan Engineers Association, Jordan.

2013-2015 Head, Chemical Engineering Scientific Committee, Jordan Engineers Association, Amman, Jordan.

Academic Advisory Roles

2014-Present Advisory Board Member, Chemical Engineering Department, Jordan University of Science and Technology, Irbid, Jordan.

Editorial Board Membership

2024-Present Jordanian Journal of Engineering and Chemical Industries (JJECI)

Journal Reviewer

- Industrial & Engineering Chemistry Research
- Energy & Fuels
- Fuel Processing Technology
- Biofuels
- Thermal Science and Engineering Progress
- Jordanian Journal of Engineering and Chemical Industries

Professional Memberships

2006-Present	Jordan Engineers Association
2009	Society of Petroleum Engineers

LANGUAGES

Arabic:	Native
English:	Fluent
Dutch:	Basic
German:	Basic

SKILLS

MS Office Applications:	Word, Excel, PowerPoint, Outlook, MS Visio, MS Project
Chemical Engineering Software:	ASPEN PLUS, ASPEN HYSYS

REFERENCES

Available upon request.