



Imam Mohammad Ibn Saud Islamic University
College of Engineering
Faculty Information

Dean of the College of Engineering

Name الاسم	Prof. Nashmi H. Alrasheedi أ.د. نشمي حسن الرشدي	
Office & Phone Number رقم التحويلة والمكتب	SR-93 0112588930	
Email البريد	nhrasheedi@imamu.edu.sa	

Education	Ph.D. الدكتوراه	Ph.D. in Mechanical Engineering University of Arkansas, Fayetteville, Arkansas, USA, 2012
	Master's Degree الماجستير	M.S. in Mechanical Engineering California State University, Fullerton, California, USA, 2009
	Bachelor's Degree البكالوريوس	B.S. in Mechanical Engineering King Saud University, Riyadh, Saudi Arabia, 2005
Current Academic Position المنصب العلمي		Professor أستاذ
Current Academic Department القسم العلمي		Mechanical Engineering الهندسة الميكانيكية
Research interest الاهتمامات البحثية		Heat transfer, renewable energy, additive manufacturing, advanced materials, machine learning applications in engineering, CFD, biomechanics, thermal systems
Faculty website URL Google scholar		Nashmi H. Alrasheedi - Google Scholar

Nashmi H. Alrasheedi, Ph.D.

Riyadh, Saudi Arabia | nhrasheedi@imamu.edu.sa | +966 11 258 8930 | Google Scholar

EXECUTIVE PROFILE

Accomplished academic and executive leader with extensive experience directing institutions, leading multidisciplinary teams, and advancing strategic initiatives across national and international environments. A Professor of Mechanical Engineering with a distinguished record of leadership in higher education, institutional governance, international relations, and strategic partnerships. Proven ability to lead organizational operations, negotiate high-level agreements, build influential relationships with government, academic, and industrial stakeholders, and drive institutional development. Brings a strong combination of executive decision-making, strategic advisory expertise, and research leadership, with a demonstrated ability to represent institutions, foster international collaboration, and translate strategic priorities into meaningful outcomes.

CORE EXPERTISE

Executive Leadership & Institutional Management • Strategic Planning & Governance • International Relations & Strategic Partnerships • Government & Stakeholder Relations • Higher Education Leadership & Administration • Strategic Negotiations & Institutional Agreements • Research Strategy & Grant Facilitation • Organizational Development & Academic Excellence

PROFESSIONAL EXPERIENCE

Dean, College of Engineering

Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia | July 2023 – Present

- Provide leadership across the college's academic, administrative, and operational functions.
- Oversee accreditation preparation and adherence to academic quality requirements.
- Develop industry-facing partnerships and encourage interdisciplinary research collaboration.
- Guide faculty recruitment, professional development, and promotion processes.

Professor of Mechanical Engineering

Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia | December 2024 – Present

- Teach undergraduate mechanical engineering courses and supervise academic development.
- Contribute to collaborative research with faculty members and external partners.
- Mentor students and early-career faculty and develop accreditation-aligned course assessments.

Executive Director, International/Domestic Relations, Cooperation & Communications; Senior Advisor to the President for International Affairs

Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia | February 2022 – July 2023

- Advised university leadership on international affairs and institutional cooperation.
- Developed memoranda of understanding and supported local and international agreements.
- Advanced collaborations with domestic and international academic institutions.

Director, University Cooperation & Communications (formerly Academic Accreditation)

Saudi Arabian Cultural Mission to the United States, Fairfax, Virginia, USA | March 2018 – February 2022

- Led university relations and strategic partnerships, with additional responsibility for training activities.
- Established collaborations with U.S. universities and English-language education providers.
- Coordinated the relocation and academic placement of more than 3,000 students from Canada to the United States.
- Negotiated tuition arrangements with U.S. institutions and addressed student-university issues.
- Supported educational pathway assessments, program accreditation reviews, and degree-validation processes.

Director, Cultural & Social Affairs (Concurrent Appointment)

Saudi Arabian Cultural Mission to the United States, Fairfax, Virginia, USA | September 2020 – March 2021

- Oversaw Saudi student clubs throughout the United States and coordinated student welfare support.

Associate Professor of Mechanical Engineering

Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia | November 2019 – December 2024

Delivered undergraduate teaching, participated in research, and advised students on academic and career opportunities.

Director, Higher Education Affairs Unit for Foreign Institutions

Ministry of Higher Education (Consultant Appointment), Riyadh, Saudi Arabia | October 2012 – March 2018

Served as a consultant in the capacity of Director of the Higher Education Affairs Unit for Foreign Institutions, supporting qualification recognition and reviews of foreign higher education institutions.

Prepared advisory reports and recommendations for ministry leadership on foreign higher education institutions, academic programs, and related initiatives.

Head, Mechanical Engineering Department (Concurrent Appointment)

Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia | October 2013 – October 2015

Supported faculty hiring, research and teaching improvement, and laboratory budget planning.

Assistant Professor of Mechanical Engineering

Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia | June 2012 – November 2019

Taught undergraduate courses and chaired study planning, accreditation, and departmental hiring committees.

EARLY CAREER EXPERIENCE

Graduate Research Assistant, University of Arkansas (2010–2012) • Teaching Assistant, University of Arkansas (2009–2012) • Computer Lab Assistant, California State University, Fullerton (2008–2009) • Assistant Engineer, King Abdulaziz City for Science and Technology (2005–2006) • Summer Intern, Saudi Aramco (2004)

EDUCATION

Ph.D. in Mechanical Engineering | 2012

University of Arkansas, Fayetteville, Arkansas, USA

Dissertation: Computer Modeling of the Influence of Structure Plan Areas on Tornado Forces

M.S. in Mechanical Engineering | 2009

California State University, Fullerton, California, USA

B.S. in Mechanical Engineering | 2005

King Saud University, Riyadh, Saudi Arabia

SELECTED JOURNAL PUBLICATIONS

Recent journal articles (selected; see Google Scholar for the complete publication record):

Zouaoui, K., et al., including Alrasheedi, N. (2026). “Mechanical performance and characterization of hybrid laminates with 3D-printed PLA/flax cores and Typha/Agave fiber face sheet.” *Cellulose*, 33(7). DOI: 10.1007/s10570-026-07060-w.

Prasad, M. B., Alrasheedi, N. H., et al. (2025). “Experimental Investigation of Nanodiamond Reinforcement in PU for Enhancing Mechanical, Scratch, Rheological, Thermal, and Shape-Memory Properties.” *Polymers*, 17(21), 2947. DOI: 10.3390/polym17212947.

Harishbabu, S., Alrasheedi, N. H., et al. (2025). “Optimization and Prediction of Mechanical Properties of Additively Manufactured PLA/GNP Composites via Response Surface Methodology and Machine Learning Models.” *Polymers*, 17(21), 2894. DOI: 10.3390/polym17212894.

Qayyum, H., et al., including Alrasheedi, N. H. (2025). “Optimization of 3D-printed wing spars via multi-material and graded infill additive manufacturing: An experimental study.” *Express Polymer Letters*, 19(11). DOI: 10.3144/expresspolymlett.2025.86.

Al Nasser, M., Alrasheedi, N., et al. (2024). “Exploring Extreme Voltage Events in Hydrogen Arcs within Electric Arc Furnaces.” *Sustainability*, 16(7).

Ben Amor, S., et al., including Alrasheedi, N. H. (2024). “Digital Twin Implementation in Additive Manufacturing: A Comprehensive Review.” *Processes*.

Hajlaoui, K., Alsaleh, N., Alrasheedi, N. H., & Yavari, A. R. (2017). “Coalescence and subsequent twinning of nanocrystals during deformation of CuZr-based metallic glasses: The grain size effect.” *Journal of Non-Crystalline Solids*, 464, 39–43.

Khan, R., Pervez, T., Alrasheedi, N. H., Al-Abri, O., & Sajid, A. (2017). “Effects of expansion rate on plasticity and structural integrity of downhole tubular.” *International Journal of Pressure Vessels and Piping*, 151, 1–10.

SELECTED CONFERENCE RESEARCH

Alrasheedi, N., et al. (2023). "Numerical Modeling of Strain Rate Effects on the Post Expansion Properties of Expandable Tubular." ASME Pressure Vessels and Piping Conference.

Alrasheedi, N. H., & Selvam, R. P. (2011). "Computing Tornado Forces on Different Building Sizes." 13th International Conference on Wind Engineering, Amsterdam.

AWARDS, MEMBERSHIPS & LANGUAGES

Outstanding Teaching Assistant, University of Arkansas (2009–2010) • Outstanding Student, California State University, Fullerton (2007–2009) • Graduate research, teaching, and postgraduate study scholarships • Member, American Society of Mechanical Engineers (ASME)

Languages: Arabic and English (fluent)