

Abdulrahman S. Al-Dossary

Date of Birth: 26th September 1979

Nationality: Saudi

Marital status: Married

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Education:

- ✓ PhD, **Mechanical Engineering**, University of Birmingham, United Kingdom (2013-2017).
- ✓ Master of Science, **Thermal Power & Fluid Engineering (Mechanical Engineering)**, University of Manchester, United Kingdom (2008-2010).
- ✓ Bachelor of Engineering Science, **Mechanical Engineering**, Aston University, United Kingdom (2006-2008).
- ✓ Associated degree (3-year), **Electromechanical Engineering Technology**, Jubail Industrial College, Saudi Arabia (1997-2000).

Professional certificates:

- ✓ Certificate of completion, **Leading Academics: leadership development programme for Doctoral Researchers**, University of Birmingham, University Graduate School, Birmingham, United Kingdom (2015).
- ✓ Certificate of completion, **Planning Curriculum and effective Learning**, King Saud University, College of Education, Jubail Industrial City (2009).
- ✓ Trainer, **Thinking Based Learning**, National Center for Teaching Thinking, USA. Royal Commission for Jubail, Jubail Industrial City (2006).
- ✓ 18-month intensive course, Training of college Trainers, **Mechanical Techniques-Industrial**, Durham College, Oshawa, Canada (2002-2004).
 - Adult Learning Course.
 - Curriculum Development and Planning Course.
 - Instructional Techniques Course.
 - Assessment and Evaluation Course.
 - Industrial Millwright Skills Program.

<p><u>Employment history:</u></p>	<p><u>Jubail Industrial College (Royal Commission for Jubail)</u> 2017-present</p> <p>Assistant Professor, Mechanical & Manufacturing Engineering Technology Department.</p> <ul style="list-style-type: none"> ✓ Conduct assigned Associate Diploma and Bachelor degree courses and seminars. ✓ Serve on college academic and non-academic committees. ✓ Participate in curriculum development activities, supervise laboratories, independent study activities, and off-campus learning. ✓ Engage in research activities which contribute to the academic mission of the college.
	<p><u>Jubail Technical Institute (Royal Commission for Jubail)</u> 2002-present</p> <p>Jubail Technical Institute Managing Director.</p> <ul style="list-style-type: none"> ✓ Developing and implementing JTI's strategic plan ✓ Developing and implement plans and policies that support JTI's mission ✓ Ensuring that training is of the highest quality and meets the international benchmarks ✓ Ensuring that offered programs curricula meet the international standards ✓ Providing leadership that creates harmony, collegiality, teamwork and a constructive culture to achieve the aims of the institute ✓ Preparing and managing the annual budget for the institute ✓ Ensuring that the institute stays within budget and report progress against budget regularly including any potential budget variance ✓ Planning the number of new student batches based on the available facilities. ✓ Ensuring that JTI meets the needs of the community and industries that it serve by having the frequent feedback ✓ Present the internal needs and the future projects to Royal Commission senior management. ✓ Enhancing the reputation of JTI by representing the institute at external forums ✓ Obtaining the required licenses from different ministries and governmental circuits to certify the institute ✓ Conducting interviews and hire staff and faculty members ✓ Developing relationships with key industry and community leaders ✓ Developing relationships with other institutes, colleges and universities in KSA and internationally ✓ Promoting the value of technical education to the community <p>Mechanical Skills Department Chairman</p> <ul style="list-style-type: none"> ✓ Ensuring a constructive, stimulating and successful learning environment to meet the needs of students. ✓ Providing a supportive environment for students that encourage their learning. ✓ Managing the resources of the department both efficiently and effectively. ✓ Integrate with training and non-training departments to achieve the academic

	<p>goals</p> <ul style="list-style-type: none"> ✓ Study the department needs including the training facilities and equipment ✓ Review the technical details with the supplier and sign the deals ✓ Ensure that the training facilities are of the highest standard possible ✓ Monitor training quality throughout the department <p>Industrial Millwright Skill Coordinator</p> <ul style="list-style-type: none"> ✓ Leading and managing staff as delegated by the department head ✓ Ensuring that operational planning is well maintained ✓ Confirming that student records are up-to-date ✓ Managing the academic development of the program ✓ Contributing to the effective functioning of the department ✓ Seeking to develop and improve performance at every opportunity by conduct meetings with other academic coordinators <p>Industrial Millwright Lead Instructor.</p> <ul style="list-style-type: none"> ✓ Train and assess the students as per the competency- based curriculum ✓ Contribute to curriculum and program development and the preparation of teaching materials ✓ Develop short courses and special programs curriculum based on stakeholder learning objectives ✓ Conduct the special program and short courses for professionals <p>Industrial Development Center (IDC) Director.</p> <ul style="list-style-type: none"> ✓ Develop marketing plan to encourage young people to start their small and medium businesses in the center ✓ Leading the technical committee to evaluate the entrepreneurs' ideas and projects ✓ Establish the required training courses for new entrepreneurs ✓ Coordinate with the small and medium enterprise finance provider to fund those candidates ✓ Strengthening and enhancing relations with industrial and business incubators inside and outside the Kingdom of Saudi Arabia ✓ Leading IDC's activities and employees as well as evaluating their performance ✓ Managing crisis in work related to the center and entrepreneurs <p><u>SABIC R&D, SABIC Technology Center (Jubail)</u> 2001-2002</p> <p>Rotating Equipment Technician.</p> <ul style="list-style-type: none"> ✓ Responding to SABIC affiliates calls for vibration investigation. ✓ Performing inspection on rotating equipment
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	<ul style="list-style-type: none"> ✓ Measuring the vibration as per the procedure for different rotating equipment using sophisticated vibration meters. ✓ Analyzing the vibration data to find out the cause of the problem. ✓ Troubleshoot the causes. ✓ Plan daily work based on work orders and job instructions received, visits sites to assess major jobs and contacts operations personnel to clarify fault details to ensure completion of assigned jobs in an efficient manner within time scale. ✓ Check, troubleshoots faults on mechanical equipment, inspects equipment to identify faults, determines and reports best method of repair or required or taken action to supervisor. ✓ Re-install repaired and overhauled equipment on site and undertakes workshop overhaul, equipment bench testing, defective parts replacement, repair and reconditioning of parts, using fixed and portable tools. ✓ Observe all safety and loss prevention procedures, and exercises effective housekeeping practices, keeping workshop and job sites clean and tidy. <p><u>Aujan soft drink production Company (Dammam)</u> 2000-2001</p> <p>Mechanical Technician</p> <ul style="list-style-type: none"> ✓ Perform the preventive maintenance for static and rotating equipment. ✓ Repair faulty equipment as per the safety procedure. ✓ Maintain the production lines. ✓ Complete the machining and welding jobs assigned. <p><u>Riyadh Bank (Dammam branch)</u> 1996</p> <p>Customer Service Representative</p> <ul style="list-style-type: none"> ✓ Serve the customers to open new accounts, check their balance, and issue all types of cards and cheques. ✓ Respond to customer needs ✓ Market the banks' services.
<u>Professional activities:</u>	<ul style="list-style-type: none"> ✓ Royal Commission nominee and member of the Education Ministry Committee for Standardization of Programs for Technical and Vocational Programs in the Technical and Vocational Education Evaluation Commission. ✓ Royal commission nominee and project manager for SABIC contractors Saudization. ✓ Member of Saudization committee of academic positions in the Colleges and Institutes Sector. ✓ Member of the implementation of the comprehensive strategy of the Royal Commission for Jubail and Yanbu ✓ Member of the Supreme Council of Colleges and Institutes at the Royal Commission in Jubail

	<ul style="list-style-type: none"> ✓ Member of the Scientific Council of Colleges and Institutes at the Royal Commission in Jubail ✓ An effective contributor to the development of the strategic framework for the colleges and institutes sector ✓ Chairman of the Advisory Council for the development of Jubail Technical Institute ✓ Chairman of the Board of managers of Jubail Technical Institute ✓ Chairman of the Academic Council of Jubail Technical Institute ✓ Chairman of the drafting committee of the strategic framework of Jubail Technical Institute ✓ Chairman of the Board of Establishment of industrial incubators in the Royal Commission in Jubail ✓ Chairman of the Technical Advisory Committee to evaluate projects and ideas for industrial incubators ✓ Founding member of the forum (City with Saudi hands) at the Royal Commission in Jubail ✓ Member of the Supreme Organizing Committee of the International Conference "The Role of Engineering and Technological Education in Building Knowledge Economy" in Jubail Industrial City. ✓ Project Manager for establishing Train of Trainers and Curriculum Development center at Jubail Technical Institute. ✓ Active member of the Saudi Club in Manchester City, UK ✓ Active member of the Saudi Club in Birmingham City, UK
<u>Key appreciation letters:</u>	<ul style="list-style-type: none"> ✓ Appreciation letter from the Saudi Arabia ambassador in London for the outstanding academic performance during the PhD course in National day 2016. ✓ Three appreciation letters from Saudi Cultural Bureau in London for the outstanding research performance during the PhD course (2013-2016). ✓ Asharqia chamber for participating as a guest speaker in succession of small and medium Enterprises Economic Forum 2011. ✓ BME global limited for participating as a guest speaker in succession of Petrochem Arabia Forum 2011. ✓ Saudi student club in Birmingham, UK, for participating in its social activities 2008.

<u>Management skills & achievements:</u>	<ul style="list-style-type: none"> ✓ Develop JTI strategic framework which includes: vision, mission, shared values, shared expectations and strategic goals for 5 years. ✓ Supervise the progress of each department annual operational plan based on the strategic goals approved ✓ Execute the operational plan after listing the tasks and activities needed to achieve the specific objectives. ✓ Implement Professional Development Review as a tool to manage staff performance. ✓ Review the job description for all academic jobs. ✓ Leading the training of trainers and curriculum development center. ✓ Increase the income out of special programs and short courses offered to stakeholder to 200% in two years to reach 12,000,000 SR by the end of 2012.
<u>Design and simulation skills:</u>	<ul style="list-style-type: none"> ✓ Solid Background in COMSOL (Multi-physics Finite Element Analysis engineering software) ✓ Solid Background in Auto CAD ✓ Solid Background in SolidWorks ✓ Solid Background in OptisWorks ✓ Solid Background in ANSYS (Computational Fluid Dynamics CFD) ✓ Solid Background in MatLab ✓ Solid Background in Engineering Equation Solver (EES)
<u>Research interests:</u>	<ul style="list-style-type: none"> ✓ Photovoltaic (PV) ✓ Concentrator PV (CPV) ✓ High Concentrator PV/thermal (HCPV) ✓ Electrical solar energy ✓ Thermal solar energy ✓ Energy economics ✓ Heat transfer ✓ Turbulence modeling ✓ Computational Fluid Dynamics (CFD) ✓ Finite element analysis
<u>Published research papers:</u>	<ol style="list-style-type: none"> 1. Aldossary, S. Mahmoud, R. AL-Dadah. Technical feasibility study of passive and active cooling for concentrator PV in harsh environment. Applied Thermal Engineering 2016; 100:490-500. 2. Aldossary, S. Mahmoud, R. AL-Dadah. Electrical performance of high Concentrating Photovoltaic in harsh environment under passive cooling. The 9th Saudi Students Conference hosted and reviewed by University of Birmingham, February 2016.

	<ol style="list-style-type: none"> 3. Aldossary, A. Algareu, A. Aldihani, R. AL-Dadah, S. Mahmoud. Improving illumination and temperature distribution uniformity in high concentrating solar cells. The 14th International Conference on Sustainable Energy Technologies (SET2015) hosted by University of Nottingham, August 2015. 4. Aldossary, S. Mahmoud, R. AL-Dadah. Alleviating non-uniform illumination of high concentration Fresnel lens. The 8th Saudi Students Conference hosted and reviewed by Imperial College London, February 2015. 5. Aldossary, A. Algareu, S. Mahmoud, R. AL-Dadah. Performance of Multi-junction PV cells with high concentration ratio in Saudi Arabia. International Conference on Applied Energy in Taiwan (ICAE), June 2014. 6. Aldossary, A. Algareu, A. Aldihani, S. Mahmoud, R. AL-Dadah. Effect of Concentrator Geometry and sand on the Efficiency of Concentrated PV System, University of Birmingham 2nd Mechanical Engineering Symposium, May 2013. 7. Aldihani, A. Aldossary, R. AL-Dadah, S. Mahmoud, A. Alqattan. Effect of Dusty Environment on the Electrical Performance of Different Photovoltaic Modules. The 14th International Conference on Sustainable Energy Technologies (SET2015) hosted by University of Nottingham, August 2015. 8. Algareu, A. Aldossary, S. Mahmoud, R. AL-Dadah. Optical Analysis of Flux Uniformity and Efficiency in Low Concentrating PV Systems. The 14th International Conference on Sustainable Energy Technologies (SET2015) hosted by University of Nottingham, August 2015. 9. Aldihani, A. Aldossary, S. Mahmoud, R. AL-Dadah. The effect of cooling on the performance of Photovoltaic cells under dusty environmental conditions. International Conference on Applied Energy in Taiwan (ICAE), June 2014.
<u>Academic and research activities:</u>	<ul style="list-style-type: none"> ✓ Solar Energy Journal reviewer. ✓ Energy Conversion and Management (ECM) Journal reviewer. ✓ International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE) reviewer.
<u>Professional membership:</u>	<ul style="list-style-type: none"> ✓ Institute of Electrical and Electronics Engineers (IEEE). ✓ American Society of Mechanical Engineers (ASME). ✓ Saudi Council of Engineers

Curriculum Vitae

<u>Selected short courses:</u>	<ul style="list-style-type: none">✓ Leadership, management, strategic planning, change management and organizational effectiveness course (Projacs-London)✓ Risk Management (Saudi Club in Birmingham-Birmingham)✓ Presentation skills (Durham college-Toronto-Canada)✓ Enhance communication skills course (Altaweel training-Riyadh)✓ Introduction to leadership and management course (PINZ-Jubail Industrial city)✓ Creative Problem Solving course (RC- Jubail Industrial city)✓ Project Management Professional (PMP) course (Projacs-Jubail Industrial city)✓ Variety of technical short courses
<u>Activities and personal interests:</u>	<ul style="list-style-type: none">✓ Reading different engineering and technical books✓ Social activities✓ Walking✓ Camping✓ Conducting Technical courses✓ Academic and social mentoring
<u>Languages:</u>	<ul style="list-style-type: none">✓ Arabic (native)✓ English (fluent)