

## Curriculum Vitae

<b>Name</b>	<b>Ziyad Awadh Alrowaili, PhD</b>
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<b>Personal Details</b>	<ul style="list-style-type: none"> <li>- <b>Nationality</b> : Saudi</li> <li>- <b>Current Job Title</b> : Dean of Common First Year Deanship</li> <li>- <b>Work Place</b> : Jouf University, KSA</li> <li>- <b>Work Address</b> : Office of the Dean, Common First Year Deanship, Jouf University, Saudi Arabia</li> <li>- <b>Postal Address</b> : Jouf University</li> <li>- <b>Office No.</b> : 00966146545666</li> <li>- <b>Email</b> : <a href="mailto:zalrowaili@ju.edu.sa">zalrowaili@ju.edu.sa</a></li> <li>- <a href="#">Academic University link</a></li> <li>- <a href="#">Scopus link</a></li> <li>- <a href="#">Scholar link</a></li> </ul>
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<b>Work Experience</b>	<b>14 years of teaching experience</b>
<p><b>Employment History</b></p> <p><b>Positions &amp; Places of Work</b> (starting from the current job to the first one)</p>	<ol style="list-style-type: none"> <li><b>1- Dean of Common First Year Deanship</b> (from 28. Feb 2019 till now) Jouf University, KSA</li> <li><b>2- Vice Dean of First Common Year Deanship</b> (Jan. 4, 2018 – Feb. 27, 2019) Jouf University, KSA</li> <li><b>3- Supervisor of the Faculty of Science</b> (July 22, 2018 – August 17, 2018) Jouf University, Physics Department of Science College, KSA</li> <li><b>4- Chair of Physics Department:</b> (June. 13, 2017 – Jan. 4, 2018) Jouf University, Physics Department of Science College, KSA</li> <li><b>5- Assistant Professor, Medical Radiation Physics</b> (May 4, 2017 – June 13, 2017) Jouf University, Physics Department of Science College, KSA</li> <li><b>6- Physics Lecturer</b> (May 7, 2011 – May 5, 2017) Al-Jouf University, Physics Department of Science College, KSA</li> <li><b>7- Research Assistant (RA)</b> (June 1, 2010, May 7, 2011) University of South Carolina, <b>The Cancer Centre</b> at South Carolina Oncology Associates (Radiation Oncology LLC/SCOA)</li> </ol>

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	<p style="text-align: center;">Columbia, SC, USA</p> <p><b>8- Research Assistant (RA) (Feb. 2010, May 2010)</b> University of South Carolina, Physics Department/Nano Centre.</p> <p><b>9- Physics Teaching Assistant (Sept. 2006 – March, 2008)</b> Jouf University (Formerly King Saud University), Physics Department of Science College, Sakaka, KSA</p> <p><b>10- Physics, Science, and Mathematics Teacher (Sept. 2004 – Aug. 2006)</b> Osamah BinZead School Hafer Albaten, KSA</p>	
<p><b>Qualifications</b></p> <p><b>Degrees</b></p>	<b>Degrees</b>	<b>Universities</b>
	<p><b>1- PhD in Medical Radiation Physics (Feb. 2017)</b></p> <p><b>Specialization:</b> Radiotherapy Dosimetry.</p> <p><b>PhD Thesis title:</b> “Utilization of a 2D solid state detector array for dose assessment and reconstruction of cancer treatment fields using megavoltage photon beams” <a href="http://ro.uow.edu.au/theses/4850/">http://ro.uow.edu.au/theses/4850/</a></p> <p><b>2- MSc in Physics</b> (with research in Medical Radiation Physics, <b>(May,7, 2011)</b></p> <p><b>Master’s Thesis Title:</b> “Detectors in Medical Physics Measuring Dose by Detectors”. <a href="https://scholarcommons.sc.edu/td/1742/">https://scholarcommons.sc.edu/td/1742/</a></p> <p><b>3- BSc of Education in Science Degree- Graduated with Highest Honors – GPA of 4.93 out of 5</b></p>	<p>University of Wollongong, Center for Medical Radiation Physics (CMRP), School of Physics, Faculty of Engineering and Information Sciences</p> <p>Shanghai Rank (2017): 201-300 QS Rank (2017): 218</p> <p>University of South Carolina, USA College of Arts and Sciences Website: <a href="http://sc.edu/artsandsciences">sc.edu/artsandsciences</a> Address:1521 Greene St., Suite 300 Columbia, SC 29208</p> <p>Shanghai Rank (2011): 201-300 QS Rank (2011): 501-550</p> <p>Jouf University, Jouf, Saudi Arabia</p>
	<p><b>1-Certificate in</b> "Prevention and Radiation Protection for Workers at Jouf University Laboratories"</p> <p><b>2-Certificate in</b> " Developing Effective Leadership"</p> <p><b>3-Certificate in</b> "Early</p>	<p>Skills Development Center at Jouf University,(2019), Al Jouf, KSA</p> <p>Leadership Management International, INC, (2019), Jouf University, Jouf, Saudi Arabia</p> <p>Prince Turki Abdel Aziz</p>

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<p>Guidance for Third-year Secondary Students"</p> <p><b>4-Certificate in</b> "Effective Personal Productivity"</p> <p><b>5-Certificate in</b> "Student Affairs Leaders: How to Create a Vibrant Campus Experience for Students"</p> <p><b>6-Certificate in</b> " The Safe Use of XRD/F Equipment in the Laboratory Including Portable Equipment (License Level) including: Basic Radiation and Atomic Physics NSW Legislative Requirements."</p> <p><b>7-Certificate in</b> "Establishing Data Analysis and Reporting System Based on NCAAA Requirements"</p> <p><b>8-Certificate in</b> "Protection in Radiation Physics"</p> <p><b>9-Certificate in</b> "Strategic Planning in Academic Institutions"</p> <p><b>10-Certificate in</b> "Managing Students with Behavioral Issues"</p> <p><b>11-Certificate in</b> "Enhancing Critical Thinking"</p> <p><b>12-Certificate in</b> "Management of Children with Disabilities"</p> <p><b>13-Certificate in</b> "Classroom Management"</p> <p><b>14-Certificate in</b> "Managing Children with Hearing</p>	<p>Library,(2019),Al Jouf, KSA</p> <p>Leadership Management International, INC, (2018), Waco, Texas USA</p> <p>Dr.Khaled Al-Sultan Supervisor General Academic Leadership Centre, (2018), Jeddah,KSA</p> <p>University of Wollongong, (2013), Wollongong, NSW, AU</p> <p>The National Commission for Academic Evaluation and Accreditation in coordination with Jouf University and British Council,(2012),Al Jouf, KSA</p> <p>Research Center—King Abdul-Aziz City, (2007), Riyadh, KSA</p> <p>Imam Muhammad Bin Saud Islamic University,(2007), Riyadh, KSA</p> <p>Training Centre, (2005), Hafer Al-Baten, KSA</p> <p>Training Centre, (2005), Hafer Al-Baten, KSA</p> <p>Training Centre, (2005), Hafer Al-Baten, KSA</p> <p>Training Centre, (2004), Hafer Al-Baten, KSA</p> <p>Training Centre, (2004), Hafer Al-</p>
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	Disabilities"	Baten, KSA
	<b>15-Certificate in "Science Teaching"</b>	Training Centre, (2004), Hafer Al-Baten, KSA
	<b>16-Certificate in "New Methods in Science Teaching"</b>	Training Centre, (2004), Hafer Al-Baten, KSA
	<b>17-Certificate in "General Teacher Training"</b>	Training Centre, (2004), Hafer Al-Baten, KSA

### Research Interests / Research Profile:

- Semiconductor and scintillator radiation detectors. Radiation Dosimetry/microdosimetry/nanosdosimetry applied to medical physics, radiation protection including space and high energy physics. Proton and Heavy ion therapy.
- Solid experiences and research interests cover; radiation dosimetry with different types of radiation detectors, which include; thermo luminescent dosimetry (TLD), Diode dosimetry, MOSFET, 2D array diode, MOSFET Dosimetry, Film Dosimetry.
- Dosimetry techniques: *In vivo* dosimetry (during cancer patient treatment), Interface Dosimetry, Surface/skin dose measurements, Linac QA techniques, Treatment Planning Dose Verification and benchmark.
- Detectors characterization and radiation damage.
- Antibacterial applications using nanoparticles materials.
- Micro-cracks detection in solar cells, teeth and bones (imaging processing).
- Radon gas detection.
- A new gas detection method using micro sensors composed of nano-materials semiconductors and oxides such as TiO<sub>2</sub>, ZnO, and SnO<sub>2</sub>.
- Radiation Dosimetry, Micro-Dosimetry and Nano-Dosimetry applied to medical physics, radiation protection including space and high energy physics.

<b>Research Projects</b>	<ol style="list-style-type: none"> <li>1- Conducted a survey and evaluation of radiation doses for all CT scan devices in Al Jouf area and to ensure that they are within the permissible doses according to international customs</li> <li>2- Estimated levels of radon in the schools in Al Jouf region</li> <li>3- Zinc oxide of shape and nanostructures: preparation, characterization, and radiation effect of biomedical applications. Submitted / Grant No: (39/386)</li> <li>4- Microcrax Detection in Solar Cells. Submitted / Grant No: (533/39)</li> </ol>
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	<ol style="list-style-type: none"> <li>5- Natural Radioactivity Level in Building Materials as a Possible Cause of Cancer in Al Jouf Region</li> <li>6- Synthesis and Magnetic Characterization of Nanoscale Manganites of Perovskite type for Biomedical Application: Cancer therapy</li> <li>7- Assessment of Shielding Performance and Radiological Safety Status in the Irradiation Units of Skaka Hospitals</li> <li>8- What You Should Know In Electromagnetism</li> </ol>
<p><b>Equipment Experience</b></p>	<p>I have worked with different kinds of equipment/machines and radiation devices &amp; tools/Software like:</p> <ol style="list-style-type: none"> <li>1- <b>Radiotherapy machines:</b> <ul style="list-style-type: none"> <li>• Different Linear accelerators, and Gamma/X-ray radiation sources and its related accessories.</li> </ul> </li> <li>2- <b>Dosimetry:</b> <ul style="list-style-type: none"> <li>• PTW Fimel TLD system, for Radiotherapy applications, ThermoElectron/HARSHAW TLD Readers 4500/3500, WinREMS dosimetry software for Personal and <i>in vivo</i> Dosimetry.</li> <li>• <i>In vivo</i> dosimetry using different types of Thermoluminescent detectors (TLD).</li> <li>• <i>In vivo</i> and skin dose dosimetry using MOSFETs.</li> <li>• <i>In vivo</i> dosimetry using semiconductor diodes.</li> <li>• Film dosimetry.</li> <li>• Many types of ionization chambers and electrometers.</li> </ul> </li> </ol>
<p><b>Publications</b></p> <p><b>A- Journal Articles</b></p>	<ol style="list-style-type: none"> <li>1- Aldosari, A.H., Petasecca, M., Espinoza, A., Newall, M., Fuduli, I., Porumb, C., Alshaikh, S., <b><u>Alrowaili, Z.A.</u></b>, Weaver, M., Metcalfe, P. and Carolan, M., 2014. A two dimensional silicon detectors array for quality assurance in stereotactic radiotherapy: MagicPlate-512. Medical physics, 41(9).</li> <li>2- <b><u>Alrowaili, Z.A.</u></b>, Lerch, M.L., Carolan, M., Fuduli, I., Porumb, C., Petasecca, M., Metcalfe, P. and Rosenfeld, A.B., 2015. 2D mapping of the MV photon fluence and 3D dose reconstruction in real time for quality assurance during radiotherapy treatment. Journal of Instrumentation, 10(09), p.P09019.</li> <li>3- <b><u>Alrowaili, Z.A.</u></b>, Lerch, M.L., Petasecca, M., Carolan, M.G., Metcalfe, P.E. and Rosenfeld, A.B., 2016. Beam perturbation characteristics of a 2D transmission silicon diode array, Magic Plate. Journal of Applied Clinical Medical Physics, 17(2).</li> <li>4- <b><u>Alrowaili, Z.A.</u></b>, Lerch, M., Petasecca, M., Carolan, M. and Rosenfeld, A., 2017, February. Effect of scattered electrons on the</li> </ol>

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'Magic Plate' transmission array detector response. In Journal of Physics: Conference Series (Vol. 777, No. 1, p. 012033). IOP Publishing.

- 5- **Alrowaili, Z.A.**, Lerch, M., Petasecca, M., Carolan, M. and Rosenfeld, A., 2017, February. Radiation response and basic dosimetric characterisation of the 'Magic Plate'. In Journal of Physics: Conference Series (Vol. 777, No. 1, p. 012034). IOP Publishing.
- 6- Utitsarn, K., **Alrowaili, Z.A.**, Stansook, N., Lerch, M., Petasecca, M., Carolan, M. and Rosenfeld, A., 2017, January. Optimisation of output factor measurements using the Magic Plate 512 silicon dosimeter array in small megavoltage photon fields. In Journal of Physics: Conference Series (Vol. 777, No. 1, p. 012022). IOP Publishing.
- 7- Kananan Utitsarn, **Ziyad A. Alrowaili**, Nauljan, Marco, Martin, Vladimir L. Perevertaylo, Michael Lerch, Anatoly Rosenfeld. "Impact of a monolithic silicon detector operating in transmission mode on clinical photon beams". Physica Medica: European Journal of Medical Physics, Volume 43, 2017 Nov, 114 – 119
- 8- A. Arfaoui, A. Mhamdi, N. Besrou, S. Touihri, H.I. Ouzari, **Z.A. Alrowaili**, M. Amlouk." Investigations into the physical properties of SnO<sub>2</sub>/MoO<sub>3</sub> and SnO<sub>2</sub>/WO<sub>3</sub> bi-layered structures along with photocatalytic and antibacterial applications". Thin Solid Films, Volume 648, 28 February 2018, Pages 12–20.
- 9- M. Hsini, S. Khadhraoui, N. Zaidi, **Z.A. Alrowaili**." Modeling the Magnetocaloric Effect of La<sub>0.67</sub>Pb<sub>0.33</sub>MnO<sub>3</sub> by the Mean-Field Theory". Journal of Superconductivity and Novel Magnetism, DOI: 10.1007/s10948-018-4644-5.
- 10- Bilel, C., K. Chakir, A. Rebey, and **Z. A. Alrowaili**. "Study of Stark Effect in n-doped 1.55 μm InN 0.92 y P 1– 1.92 y Bi y/InP MQWs." Journal of Electronic Materials: 1-7.
- 11- M. Hsini, S. Khadhraoui, N. Zaidi, **Z.A. Alrowaili**." Spontaneous magnetization estimation and magnetocaloric effect study by means of theoretical models in La<sub>0.67</sub> Pb<sub>0.33</sub> MnO<sub>3</sub>". Journal of Superconductivity and Novel Magnetism.

### B- Conference & Workshop Attendance

- 1- **Z. A. Alrowaili**, I. Fuduli, A. Espinoza, C.S. Porumb, S. Alshaikh, M. Petasecca, M. Carolan, P. Metcalfe, M.L.F. Lerch A.B Rosenfeld, "Characterization of A 2D diode array as a radiotherapy fluence detector" Poster presented at IEEE NSS/ MIS/ RTSD October 27- November 2, 2013, COEX, Seoul, Korea.
- 2- **Z. A. Alrowaili**, B. Oborn, M. Carolan, M. Petasecca, P. Metcalfe, M.L.F. Lerch, A. B. Rosenfeld, "characterization of a 2D diode array as a transmission mode detector and a study of the effect of



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scattered electrons” Presented at IEEE NSS/ MIS/ RTSD October 27- November 2, 2013, COEX, Seoul, Korea.

- 3- C.S. Porumb, I. Fuduli, M.Petasecca, **Z. Alrowaili**, A.A. Espinoza, A.H. Aldosari,A. Cullen, V.L.Perevertaylo, M.Carolan ,M. L.F. Lerch, A B. Rosenfeld, “A Novel Dual-Verification Quality assurance System for Eternal Beam Radiotherapy” Poster presented at IEEE NSS/ MIS/ RTSD October 27- November 2, 2013, COEX, Seoul, Korea.
- 4- B M. Oborn, M G. Carolan, **Z. Alrowaili**, S. Guatelli, M. Lerch, M. Petasecca, A B. Rosenfeld, “ Monte Carlo simulation of a novel 2D diode array detector for radiotherapy quality assurance” Presented at the Solid State Dosimetry 17th International Conference, September 22-27, 2013- Mar Hotel- Recife-Brazil.
- 5- **Z. A. Alrowaili**, M. Petasecca, M. Carolan, P. Metcalfe, M.L.F. Lerch , A.B Rosenfeld,”Characterization of a two dimensional diode array (Magic Plate) as a transmission detector for real time treatment verification” Poster presented at the Engineering and Physical Sciences in Medicine Conference (EPSM) 3-7 November 2013, Pan Pacific Hotel, Perth.
- 6- **Z. A. Alrowaili**, S. Alanezi, A. Cullen, M.Carolan, M. Petasecca, P. Metcalfe, M.L.F. Lerch, A. B. Rosenfeld, “properties of a 2D diode array in fluence modeversus full scatter conditions” Poster presented at the Engineering and Physical Sciences in Medicine Conference (EPSM) 3-7 November 2013, Pan Pacific Hotel, Perth.
- 7- **Z. A. Alrowaili**, M.L.F. Lerch, M.Carolan, I. Fuduli, ,C.S. Porumb, M.Petasecca, P. Metcalfe, A.B Rosenfeld, “Magic Plate: A Two Dimensional Silicon Transmission Detector Array for Real Time MV Photon Treatment Verification in Vivo” presented at the Australian Institute of Physics Congress 7-11 December 2014, Canberra, Australia.
- 8- **Z. A. Alrowaili**, M.L.F. Lerch, M.Carolan, M.Petasecca, P. Metcalfe, A.B Rosenfeld, “ Magic Plate: 2D Silicon Diode Array for Quality Assurance during Patent Treatment” Poster presented at the Australian Institute of Physics Congress 7-11 December 2014, Canberra, Australia.
- 9- **Z. A. Alrowaili**, M.L.F. Lerch, M.Carolan, M.Petasecca, P. Metcalfe, A.B Rosenfeld, “Characterisation of Magic Plate as a Transmission Detector for radiotherapy Quality Assurance during Patient Treatment” Poster presented at the Australian Institute of Physics Congress 7-11 December 2014, Canberra, Australia.
- 10- **Ziyad Alrowaili**, Michael Lerch, Martin Carolan, Marco Petasecca, Peter Metcalfe and Anatoly Rosenfeld, “Real-time Dose Reconstruction in MV Photon Therapy using a 2D solid state detector array” presented at the World Congress on Medical Physics & Biomedical Engineering (IUPESM) 7-12 June 2015, Toronto, Canada.
- 11- **Z. A. Alrowaili**, M. Lerch, M. Petasecca , M. Carolan, P. Metcalfe, A.B Rosenfeld, “ Radiation Response and Basic

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- Dosimetric Characterisation of the "Magic Plate" at Micro-Mini & Nano- Dosimetry and innovative technologies in radiation (MMND-ITRO conference ) 26-31 January 2016, Wrest Point, Tasmania, Australia.
- 12-** Z. A. Alrowaili, M. Lerch, M. Petasecca , M. Carolan, P. Metcalfe, A.B Rosenfeld, " Characterisation of a 2D Silicon Diode Array "Magic Plate" as a Radiotherapy Transmission Detector" at Micro-Mini & Nano- Dosimetry and innovative technologies in radiation (MMND-ITRO conference ) 26-31 January 2016, Wrest Point, Tasmania, Australia.
- 13-** K. Utitsarn , Z. A. Alrowaili, M. Lerch, M. Petasecca , M. Carolan, A.B Rosenfeld, " The Effects of Different Air Gap on Output Factor Measurement with Magic Plate (MP-512)" at Micro-Mini & Nano- Dosimetry and innovative technologies in radiation (MMND-ITRO conference ) 26-31 January 2016, Wrest Point, Tasmania, Au
- 14-** Z. A. Alrowaili, M.L.F Lerch, M. Petasecca , M. Carolan, P. Metcalfe, V. Perevertaylo, A.B Rosenfeld, "Real Time Dose Reconstruction in MV Photon Therapy using a 2D solid state detector array." Poster accepted at the 18th International Conference on Solid State Dosimetry (SSD) 03 - 08 July 2016, Holiday Inn Munich City Centre (DE), Germany.
- 15-** Z. A. Alrowaili, M.L.F Lerch, M. Carolan, M. Petasecca , P. Metcalfe, A.B Rosenfeld," Transparency of the "Magic Plate" Silicon Diode Array in a Megavoltage Photon" at the Engineering and Physical Sciences in Medicine Conference (EPSM) 6-10 November 2016, Sydney, Australia.
- 16-** Z. A. Alrowaili, M.L.F Lerch, M. Carolan, M. Petasecca , P. Metcalfe, A.B Rosenfeld,"Dose Reconstruction with a 2D transmission Silicon Diode Array "Magic Plate" in 10 MV Radiation Field" at the Engineering and Physical Sciences in Medicine Conference (EPSM) 6-10 November 2016, Sydney, Australia.
- 17-** K. Utitsam, Z. A. Alrowaili, N. stansook, M.L.F Lerch, M. Carolan, M. Petasecca , A.B Rosenfeld," Beam perturbation characteristic of monolithic Magic Plate 512 (MP512)" at the Engineering and Physical Sciences in Medicine Conference (EPSM) 6-10 November 2016, Sydney, Australia.
- 18-** K. Utitsam, Z. A. Alrowaili, N. stansook, M. Petasecca, M. Carolan, M.L.F Lerch, A.B Rosenfeld,"The effect of air gaps on Magic Plate 512 (MP51 2) for small field dosimetry" at ESTRO 36, 05-09 May, 2017, Vienna, Austria.
- 19-** Zakiya S. Al-Rahbi, Dean L. Cutajar, Ziyad A. Alrowaili, Anna Ralston, Peter Metcalfe, and Anatoly B. Rosenfeld," Characterisation and Performance Study of Newly Developed n-type Skin Diode Dosimeter for High Photon Energy (6 and 18 mv) Skin Dosimetry" oral presented at J Med Phys. 2017 Nov;= 042(Suppl 1): S66–S109.



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	<p><b>20-</b>Reda M. Elsayed, M.A.M.Uousif, <b>Ziyad A. Alrowaili</b>, A,M,A.Mostafa "Dependency of Natural Radionuclides Distribution on the .characteristic of Agricultural Soil" at The Fourth International Conference on New Horizons In Basic and Applied Sciences July 26-29, 2019,Hurghada,Egypt.</p>
<p><b>Scientific Meeting Attended</b></p>	<ol style="list-style-type: none"> <li><b>1-</b> Attended American Association of Physicists in Medicine Convention from July 18 – July 22, 2010 in Philadelphia, Pennsylvania, USA.</li> <li><b>2-</b> Attended Scientific Conference in surface science and its applications (CSSA-2017), college of science, 1-2 May 2017, Al-Jouf, Sakaka, KSA.</li> <li><b>3-</b> A Scientific Forum for Nuclear Security.</li> <li><b>4-</b> Participation in the national dialogue under the title of the Saudi national identity contributing to support vision 2030.</li> <li><b>5-</b> Workshop on the International Classification of Universities (QS).</li> <li><b>6-</b> Renewable Energy Workshop: Prospects and Challenges, College of science, 26<sup>th</sup> March 2019, Al-Jouf, Sakaka, KSA.</li> <li><b>7-</b> Attended International Exhibition and Conference on Higher Education about the Development of the excellence standards in Common First Year Deanships (Jouf University as a model), 10<sup>th</sup> April 2019, Riyadh, KSA.</li> </ol>
<p><b>Committees</b></p>	<ul style="list-style-type: none"> <li>• Chairman of interviewing committee of Physics department in College of Science (2016 - 2017)</li> <li>• Member, Self-study committee of Physics department in College of Science (2016 - 2017)</li> <li>• Chairman of Foundational accreditation committee in College of Science (2016 - 2017)</li> <li>• Member, plans and programs committee in College of Science (2016 - 2017)</li> <li>• Member, Scientific committee in College of Science (2016 - 2017)</li> <li>• Chairman of the Physics committee in College of Science (2016 - 2017)</li> <li>• Member, Disciplinary committee in College of Science (2016 - 2017)</li> <li>• Member, Strategic plan preparation committee in College of Science (2016 - 2017)</li> <li>• Chairman of Follow up measurement of performance committee for both composes in College of Science (2016 - 2017)</li> <li>• Chairman of Student Counseling Committee in Common First Year Deanship (2016 - 2017)</li> <li>• Chairman of Study Plans Committee in Common First Year Deanship (2016 - 2017)</li> <li>• Member, Drug awareness workshops committee in Jouf University (2016 - 2017)</li> <li>• Member, Scheduling committee of Jouf University (2016 - 2017)</li> </ul>

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- Member, Disciplinary committee in Common First Year Deanship (2016 - 2017)
- Chairman of Laboratories committee in Common First Year Deanship (2016 - 2017)
- Member, Assessment and Evaluation Unit in Jouf university (2016 - 2017)
- Chairman of Standing Committee of the Teaching Schedules in Jouf University (2017 - 2018)
- Member, Permanent Committee for Scholarship and Training (2017 - 2018)
- Member, Standing Committee to consider the allowances of faculty members at the University (2017 - 2018)
- Member, Standing Committee for Direct Purchase (2017 - 2018)
- Member, Permanent Committee for laboratories, devices, IT labs and educational materials at the university (2017 - 2018)
- Member, Deanship Council of the Faculty of Pharmacy (2018/2019)
- Member, Deanship Council of the Faculty of Applied Medical Sciences (2018/2019)
- Chairman, Deanship Council of Common First Year Deanship (2018/2019)
- Member of the Organizing Committee of the Renewable Energy Conference in accordance with the Kingdom Vision 2030 (Sources - Challenges - Horizons) (2018/2019)
- Member, Standing Committee for Examining Students Academic Problems (2019/2020)
- Member, Permanent Committee for laboratories, devices, IT labs and educational materials at the university (2019 - 2020)
- Member, Permanent Committee for Contracting with non-Saudi teaching staff members (2019 - 2020)
- Vice-Chairman, Standing Committee for Direct Purchase (2019 - 2020)
- Chairman of Standing Committee of Study Schedules in Jouf University (2019 - 2020)
- Member, Standing Committee of Curricula, Plans and Books (2019 - 2020)
- Member, Committee of arranging the transition, supervision of furnishing and equipping colleges for study at the students headquarter in the University Campus in Sakaka. (2019 - 2020)
- Member, Standing Committee of Scholarship and Training (2019 - 2020)

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<p><b>Membership</b></p>	<ul style="list-style-type: none"> <li>• Member, Saudi Medical Physics Society (SAMPS).</li> <li>• Member, Australasian College of Physical Scientists and Engineers in Medicine (ACPSEM)</li> <li>• Member, Saudi Physical Society</li> <li>• Chairman of the Saudi Scientific Society for Renewable Energy</li> </ul>
<p><b>Community Service</b></p>	<ul style="list-style-type: none"> <li>• E.P.I. Saudi Representative at the University of South Carolina Saudi Student Association at the University of South Carolina (2008/2009) with certificate of recognition from the SACM.</li> <li>• Service Saturday Volunteer Community Service Program (2008).</li> </ul>
<p><b>Awards &amp; Appreciations</b></p>	<ol style="list-style-type: none"> <li>1- <b>Final Project (Bachelor degree):</b> The Benefits of the Solar System in Arabic Countries (received a prize and certificate of recognition for the fourth most accomplished project in the country).</li> <li>2- <b>Certificate of recognition</b> from the SACM for the scientific achievements and publications during my PhD project.</li> <li>3- <b>Certificate of recognition</b> from the SACM for the best academic achievement for 2015</li> <li>4- <b>Prize money</b> for outstanding academic performance (2013, 2014 and 2015)</li> <li>5- <b>Certificate of appreciation</b> from the University of Wollongong (Centre for Medical Radiation Physics, head of school) for the scientific achievements in my PhD thesis</li> <li>6- <b>Certificate of appreciation</b> from Jouf University for the scientific achievements in my PhD project.</li> <li>7- <b>Certificate of appreciation</b> from General Manager of Education in Jouf region (2018) for the primary guidance program for secondary school students</li> <li>8- <b>Certificate of appreciation</b> from the primary guidance program for secondary school students in Al-Qurayat Governorate (2018)</li> <li>9- <b>Certificate of appreciation</b> from Second employment in Jouf University's main campus (2018)</li> </ol>
<p><b>Personal Skills &amp; Competencies/ Managerial Abilities</b></p>	<ul style="list-style-type: none"> <li>• A thorough, detail-oriented, and solutions-focused professional with a solid Physics and Medical Physics background.</li> <li>• Solid MS Word, MS Excel, MS PowerPoint, MS Outlook, and Internet Explorer experience and ability to use technology for research-related, instructional and administrative purposes.</li> <li>• Data Analysis Software, Origin Pro, MATLAB, image Processing and Statistica.</li> </ul>

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	<ul style="list-style-type: none"> <li>• A dedicated instructor with demonstrated ability to teach, motivate, and direct students while maintaining interest and achievement.</li> <li>• A motivated and flexible self-starter with strong planning, organizational, and leadership skills. Initiated comprehensive teaching materials and developed lesson plans in order to deliver lectures in the field of Physics and Medical Physics subjects, general Physics, and nuclear Physics.</li> <li>• Facilitated a variety of physics experiments for student lab classes.</li> <li>• Organized and executed weekly quizzes, tests, and final exams for subjects that I'm teaching.</li> <li>• Kept office hours and assisted students after classes on as-needed bases.</li> <li>• Performed diverse experiments in all Physics laboratories.</li> <li>• Supervised technical support staff and students, with different education levels, during preparation of initial experiment stages.</li> <li>• Helping the head of Physics department with different administration stuff. Originated comprehensive teaching materials and developed lesson plans in order to deliver lectures in the field of Medical Physics subjects (i.e. Radiation Physics and Medical imaging), general Physics, and nuclear Physics.</li> </ul>
<p><b>Job Description</b></p>	<p>I assisted as a <b>Research Assistant</b> at the University of South Carolina, The Cancer Centre (June 1, 2010, May 7, 2011) with the following projects &amp; researches:</p> <ul style="list-style-type: none"> <li>• Responsible for developing IMRT-QA system on Elekta and Varian linear accelerators.</li> <li>• Measured and analyzed radiation fields using an Elekta and Varian linear accelerators.</li> <li>• Operated a large variety of medical equipment.</li> <li>• Measured and analyzed Thermo luminescent Dosimeters (TLDs) and TG51 procedure (protocol) for Elekta and Varian machines for both electron and photon using solid water phantom and tank water.</li> <li>• Doing some RIT procedure for IMRT QA and some monthly mechanical QA.</li> <li>• Met with oncologists and Medical Physicists in order to determine doses of radiation for current patients.</li> <li>• Stayed up-to-date and informed of contemporary research in medical and nuclear physics.</li> <li>• Participated in an experimental IMRT QA procedure where solid water phantom material was radiated and consequently analyzed to determine size of cancerous cells and appropriate dosage of radiation.</li> </ul>

## Curriculum Vitae

- Attended American Association of Physicists in Medicine Convention from July 18-July 22, 2010 in Philadelphia, Pennsylvania.

I assisted as a **Research Assistant** at the University of South Carolina, Physics Department/Nano Centre (Feb. 2010, May 2010) with the following projects & researches:

- Repeatedly developed a golden wafer for measuring DNA stability or lack of by using the MCH technique.
- Closely analyzed the data received from DNA experiments.
- Prepared detailed reports of completed experiments.
- Met with, briefed, and collaborated on progress of experiments with department professors and colleagues.

I achieved as a **Physics Teaching Assistant** at Jouf University, Physics Department of Science College the following being at this position:

- Originated comprehensive teaching materials and developed lesson plans in order to deliver lectures in the field of physics.
- Facilitated a variety of physics experiments for student lab classes.
- Prepared and executed weekly quizzes, tests, and final exams.
- Kept office hours and assisted students after classes on as-needed bases.
- Performed diverse experiments in nuclear, solid, electro-dynamic and modern physics laboratories.
- Supervised technical support staff during preparation of initial experiment stages.
- Supervised students with different education levels during preparation of the experiment stages.
- Took minutes during employee meetings and compiled reports for colleagues.
- Was selected as substitute Director of Science College during Director's absence.

I achieved as a **Physics, Science, and Mathematics Teacher** at Osamah BinZead School the following being at this position:

- Designed creative lesson plans and taught physics, science, and mathematics to learners of various ages.
- Composed monthly curricula, generated student progress reports, and maintained attendance files.
- Administered needs analysis of individual students and built upon their strengths.

## Curriculum Vitae

	<ul style="list-style-type: none"><li>• Implemented a vast range of pedagogical methods and facilitated student-centered teaching approaches.</li><li>• Provided support and professional feedback to student teachers.</li><li>• Organized and accompanied students on field trips to enrich their learning experiences and broaden their understanding of taught courses.</li></ul> <p>Utilized a vast number of teaching tools and techniques to tailor lessons to meet students' individual needs.</p>
<b>Media coverage</b>	<ul style="list-style-type: none"><li>• <a href="#">Illawarra Mercury News</a></li><li>• <a href="#">University of Wollongong homepage</a></li><li>• <a href="#">Saudi Arabian Cultural Mission</a></li><li>• <a href="#">Med Imaging Daily Radiology News.net</a></li><li>• <a href="#">Medical Design Technology</a></li><li>• <a href="#">The Stand – Stories from UoW</a></li><li>• <a href="#">Saudi Arabia (sabq Newspaper)</a></li></ul>

*Original documents or their copies can be produced on demand to support all above claims.*