

Faculty Name	Prof. Samir Abdul-Majid Alzaidi
Education:	<ul style="list-style-type: none"> ➤ Ph.D. Nuclear Engineering, Georgia Institute of Technology, Atlanta, USA, 1976. ➤ MS Nuclear Engineering, Georgia Institute of Technology, Atlanta, USA, 1972. ➤ BS Physics, Almustanseriah University, Baghdad, Iraq, 1968.
Academic experience:	<ul style="list-style-type: none"> ➤ 2002-Present Professor, Nuclear Engineering Department, Faculty of Engineering, King Abdulaziz University, Jeddah, Saudi Arabia. ➤ 1998-2002 Director, Alpha Tech Limited, New Zealand ➤ 2001- 2011 Research supervisor, Physics Department, University of Canterbury, Christchurch, New Zealand. ➤ 1976 – 1997, Assistant professor, associate professor, Professor, Nuclear Engineering Department, Faculty of Engineering, King Abdulaziz University, Jeddah, Saudi Arabia. ➤ 1977-1982 Chairman, Nuclear Engineering Department, Faculty of Engineering, King Abdulaziz University, Jeddah, Saudi Arabia.
Non-academic experience	<ul style="list-style-type: none"> ➤ 1998-2002 Director, Alpha Tech Limited, New Zealand.
Current membership in professor organizations	<ul style="list-style-type: none"> ➤ American Nuclear Society ➤ Health Physics Society ➤ American Society of Nondestructive Testing
Honors and awards	<ul style="list-style-type: none"> ➤ Received many awards, university shields and letters of thanks and appreciation including shields from two university presidents and letters of thanks from International Atomic Energy Agency.
Service Activities	<ul style="list-style-type: none"> ➤ Worked as expert to International Atomic Energy Agency on putting "Codes of Safe Practice" on Radiation Protection to the Kingdom of Saudi Arabia. ➤ Gave consultations on safe working with radioisotopes and radiation to more than fifty (50) hospitals and Medical centers and to industrial centers including SABIC, ARAMCO, petrochemical industries and different factories in Saudi Arabia. ➤ Participated in establishing radiation monitoring system for measuring radioactivity in contaminated food coming to Saudi Arabia. ➤ Participated in putting "Limits of Radioactivity in Imported Foodstuff coming to Saudi Arabia". ➤ Participated in organization of International conferences and several regional workshops in cooperation with the International Atomic Energy held at King Abdulaziz University.
Publications & presentations from the past five years	<ol style="list-style-type: none"> 1. Samir Abdul-Majid “Miniaturized pipe inspection system for measuring corrosion and scale in small pipes” US Patent number: 9020099, April 28, 2015. 2. Samir Abdul-Majid & Ahmed Balamesh “Collimator for backscattered radiation imaging and methods of using the same”, US Patent number 8976936 March 10, 2015.

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3. Samir Abdul-Majid “Measurements of wax deposition in pipelines by neutron back diffusion” 7th Middle East NDT Conference & Exhibition, Bahrain from 13 – 16 September, 2015.
 4. Samir Abdul-Majid, Ahmed Balamesh, Dheya Al Othmany, Ahmed Alassiaa, Hussein Al-Huraibi, “Micro-Curie and milli-Curie tangential radiographic imaging of large pipes based on gamma ray backscattering” 7th Middle East NDT Conference & Exhibition, Bahrain from 13 – 16 September, 2015.
 5. Samir Abdul-Majid, Ahmed Balamesh, Dheya Al Othmany, Ahmed Alassiaa, Hussein Al-Huraibi, “Corrosion imaging and thickness determination using micro-Curie radiation sources based on gamma-ray backscattering: Experiments and MCNP simulation” Research in Nondestructive Evaluation, 26, 43-59, 2014.
 6. Samir Abdul-Majid & Ahmed Balamesh “Single side imaging of corrosion under insulation using single photon gamma backscattering” Research in Nondestructive Evaluation, 26, 172-185, 2014.
 7. Samir Abdul-Majid Alzaidi, “System for inspection and imaging of insulated pipes and vessels using backscattered radiation and X-ray fluorescence”, US Patent number: 8767912, July 1, 2014.
 8. R. Aamir, Samir Abdul-Majid and others “MARS spectral molecular imaging of lamb tissue: data collection and image analysis” Journal of Instrumentation, 9, P 2005, 2014.
 9. Abdul Raheem Kinsara, Samir Abdul-Majid, Wael El-Gammal, Tarik Albaghdadi, Abdulraof Maimani and Waleed H. Abulfaraj “External radiation doses from patients administered with radiopharmaceuticals: measurements and Monte Carlo simulation”, Nuclear Technology and Radiation Protection 39, No. 3, pp. 199-206, 2014.
 10. Samir Abdul-Majid “Determination of wax deposition and corrosion in pipelines by neutron back diffusion collimation and neutron capture gamma rays” Applied radiations and Isotopes, 2013, 74, 102–108.
 11. Samir Abdul-Majid & Tareq AboAlfaraj “Measurements of Void Fraction in Two Phase Flow by Radiation Interaction” 6th Middle East Non-destructive Conference and Exhibition 2012, American Society of Non-Destructive Testing, Bahrain, October 7-10, 2012.

Professional development activities

- Training of personnel on radiation measurements in food stuffs in Saudi Arabia.
 - Training and consultations on Safe Practice of Radiation in medical radiography in more than 20 Medical centers in Saudi Arabia.
 - Training and consultations on Safe Practice of Radiation in medical nuclear medicine in more than 10 Medical centers in Saudi Arabia.
 - Training of personnel on Safe Practice of Radiation in industry to more than 10 industrial centers in Saudi Arabia
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