

Faculty Name:	Dr. Mohammed Aljohani
Education:	<ul style="list-style-type: none"> ➤ Ph.D. in 1996 – Georgia Institute of Technology, Atlanta, Georgia, USA Nuclear Engineering and Radiation measurements, 1996 ➤ MS Nuclear Engineering, College of Engineering, King Saud University, Riyadh,
Academic experience:	<ul style="list-style-type: none"> ➤ King Abdulaziz University, Jeddah Saudi Arabia Associate Professor - 1996 – Present Acting Chairman, Nuclear Engineering Department Acting Director, Radiation protection and Training center Chairman of the University Radiation Protection Standing Committee Chairman of the Saudi Aramco Non Destructive Testing Chair
Current membership in professional organizations	<ul style="list-style-type: none"> ➤ Nuclear Engineering Society
Honors, Awards, & Grants	<ul style="list-style-type: none"> ➤ Investigation of the Effects of Design Parameters and Operating Conditions on Phase Distribution in High Pressure Multiphase Chemical Reactors via Gamma Computed Tomography, funded by KACST (\$ 533,333), 2010-2013 ➤ Energy Efficiency and Cost Effectiveness, an Innovative Brackish Water Desalination in Saudi Arabia, funded by KAU, (\$ 800,000) 2010-2012 ➤ Aramco Non Destructive Testing Chair, Funded by Aramco company for three years (\$ 1,600,000), 2011-2014 ➤ Peaceful Applications of Nuclear Technology, Funded by KAU for two years (\$ 120,000) from Nov, 2009-2010
Service Activities	<ul style="list-style-type: none"> ➤ Led the Department to successful EC-2000 ABET Accreditation in 2009 ➤ Established The Non-destructive Testing Center with a budget of more than \$ 3 million.
Publications & presentations from the past five years	<ol style="list-style-type: none"> 1. Arif Isaeni, Mohammed Aljohani, Tareq Abolfaraj, S. Bhuiyan, Muhammed, Simulation of Criticality Control in Aqueous Homogeneous Reactor for Mo-99 Production Using, European Nuclear Conference, Proceeding, 11-14 May, 2014. Marcella, France. 2. Warsito P. Taruno, M. F. Ihsan, Marlin R. Baidillah, Timothy Tandian, Mahdi Mahendra& Mohammed Aljohani. ECVT for Human Brain Motion Activity Observation. IEEE MECBME The Second Middle East Conference on Biomedical Engineering 2014. Doha – Qatar. 3. Warsito P. Taruno, Marlin R. Baidillah, Rommy I. Sulaiman, IfniaWidora, Arbai Yusuf, WahyuWidada, Mohammad Aljohani. Comparison of ECVT and USG for Breast Cancer Detection. The Annual International Conference on Science and Engineering in Biology, Medical and Public Health 2014 (BIOMEDPUB), 31 Mei 2014. Bali, Indonesia. 4. Warsito P. Taruno, Marlin, RamadhanBaidillah, Rommyimansulaiman, Muhammad Fathul, Ihsan, Sri Elsa, Fatmi, Almas HilmanMuhtadi, Freddy,

Haryanto, Mohammed Aljohani, "4D Brain Activity Scanner Using Electrical Capacitance Volume Tomography (ECVT)" submitted to the 2013 International Symposium on Biomedical Imaging: From Nano to Macro to be held in Westin Hotel, San Francisco, CA, USA, during April 7-11, 2013.

5. Warsito P. Taruno, Marlin R. Baidillah, Rommy I. Sulaiman, Muhammad F. Ihsan, Arbai Yusuf, Wahyu Widada, Muhammad Aljohani, "Brain Tumor Detection using Electrical Capacitance Volume Tomography (ECVT)" IEEE EMBS Neuralengineering Conference 2013, San Diego – USA.
 6. Taruno, W.P. Baidillah, M.R. ; Sulaiman, R.I. ; Yusuf, A. ; Widada, W. ; Alzufri, H. ; Aljohani, M. "A novel sensor design for breast cancer scanner based on Electrical Capacitance Volume Tomography (ECVT)", Sensors 2012, IEEE, Taiwan, 28-31 October 2012.
 7. Ali BadidiBouda, M. S. Aljohani, Ahmed Mebtouche, RafikHalimi, WahibaDjerir, (2011), "Characterization of Grains Size by Ultrasounds", Key Engineering Materials, 482, pp. 49-56
 8. FathiDjouidar, and M. S. Aljohani, (2010), "Application of ionizing radiation to environmental protection: Removal of toxic Cr(VI) metal ion in industrial wastewater: Preliminary study", Journal of Radioanalytical and Nuclear Chemistry, 285, 3 pp 417-423.
 9. M. E. Elgohary, M. S. Aljohani and M. Y. Khalil, (2009)"Response matrix of a neutron spectroscopy system comprised of successive BF_3 and H_2O arrays", The European Physical Journal Applied Physics, 48, 2, pp 21201-21209.
 10. M. S. Aljohani, and Abdulsalam Al-Mayahi, Nano-filtration process, UK patent application No. GB 0906841.2, 2009
 11. M. S. Aljohani, P.M.V. Subbarao, R. SenthilMurugan, Combined Cycle Power Plants, US Provisional Patent application number 61/237,681, 2009.
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