

**Name**

Belal Gharaibeh

**Education – degree, discipline, institution, year**

Ph.D. in Mechanical Engineering/Minor in Manufacturing Systems - University of Kentucky, Lexington, Kentucky 01/02- 02/07

B.S. in Mechanical Engineering/Minor in Manufacturing - Jordan University of Science and Technology, Irbid, 08/96-05/01

**Academic experience – institution, rank, title (if appropriate), when, full time or part time**

Associate professor- The University of Jordan/ Industrial Engineering Department, full time, 01/19-current

Chair of the Industrial Engineering Department -The University of Jordan, full time 03/18 – 1/19

Associate professor (unpaid leave)- The American University of the Middle East, full time 09/16- 9/17

Assistant Dean for students' affairs - The University of Jordan/ School of Engineering, full time 09/14-09/16

Assistant Professor - The University of Jordan/ Industrial Engineering Department, full time 09/11/-09/16

Assistant Professor - Philadelphia University/Mechanical Engineering Department, full time 09/10-09/11

Research Associate - Institute of Research for Technology Development (IR4TD), University of Kentucky, full time 08/08-09/10

**Non-academic experience – company or entity, title, brief description of position, when, full time or part time****Certifications or professional registrations****Current membership in professional organizations**

Professional member of the Society of Manufacturing Engineering / since 2015

Professional member of the Institute of Industrial and Systems Engineering / since 2018

**Honors and awards**

MIT-Jordan Abdul Hameed Shoman Foundation Seed Fund 2020/2021

**Service activities (within and outside of the institution)**

Department Chair 2018/2019

Permanent member of the Collage of Engineering disciplinary committee 2004-2016

Faculty advisor for the SME student Chapter S338 at the University of Jordan

Faculty advisor for the IISE student chapter at the University of Jordan

**The most important publications and presentations**

- Belal M.Y. Gharaibeh, Sa'ed Awni Musmar, Ehab W. Al-Zamer, Samer W. Al-Zamer, ANALYTICAL HIERARCHY PROCESS-BASED DECISION MAKING FOR EVALUATING PYROLYTIC CARBON BLACK AS AN ALTERNATIVE SOURCE

OF HEATING IN REFUGEE CAMPS IN JORDAN, IREC2021 conference, April 14-15, Amman Jordan.

- Mohammad A. Gharaibeh, Hitham Tlilan & Belal M. Y. Gharaibeh. Stress concentration factor analysis of countersunk holes using finite element analysis and response surface methodology. Australian Journal of Mechanical Engineering, 2253-2204, 2019, (2) 13
- Non-contact method for quantifying changes in the dynamics of microbial populations, US patent # 0311109, 2010.
- Method for detection defect in material and system for the method. International patent International patent CA2736734 C. 2015.
- Method for detecting defect in material and system for the method, US 8506159 B2, 2008
- Infrared Seed Inspection System for automotive coated surfaces, Toyota Motor Manufacturing, US patent # 0123093, 2011
- Method for reducing the curing time on of a painting composition. US patent, 0034980, 2010.
- Belal Gharaibeh, Abbas Al-Refaie, Jawadat Goussous and Mohammed Shurrab. Effect of CCMS on Customer Satisfaction and Loyalty in Jordanian Banks, INFORMATION: An International Interdisciplinary Journal, 2012, 15 (12C), 6227-6238.
- Ahmad A. Salameh, Jeffery J. Champion, Belal Y. Gharaibeh, Martin E. Evans, Kozo Saito, Real-time quantification of Staphylococcus aureus in liquid medium using infrared thermography, Infrared Physics and & Technology, 2012, 55, 170-172.
- Ahmad A. Salameh, Jeffery J. Champion, Belal Y. Gharaibeh, Martin E. Evans, Kozo Saito Real-time quantification of viable bacteria in liquid medium using infrared thermography, Infrared Physics & Technology, 54(6), 517-524
- Belal Gharaibeh, Mohamed Kenawey, Ahmad Salameh, Kozo Saito. Finite Element Analysis to Improve IR Thermography Inspection for a Stay Cable Bridge. NDE/NDT for Highways and Bridges: Structural Materials Technology (SMT) 2010, New York, NY. August 16-20, 2010

### **The most recent professional development activities**

#### **Grants and fund for the following projects:**

- Radiation Effects On Medical Devices Made By 3d Printing, April, 2021. The MIT-Jordan Abdul Hameed Shoman Foundation Seed Fund (\$26,000).
- Right-First-Time Fused Deposition for Healthcare Manufacturing, October, 2020. The Royal Academy of Engineering (UK) and Industrial Scientific Research and Development Fund-The Higher Council for Science and Technology (Jordan) (£80,000).
- A sustainable heating system using Carbon Black Fuel source for Jordan's refugee camps and rural areas, October, 2020. The Royal Academy of Engineering (UK) and Industrial Scientific Research and Development Fund-The Higher Council for Science and Technology (Jordan) (£80,000).

