

1. Name: **Khurshid Alam**
2. Education – degree, discipline, institution, year: -
  - Ph.D. Mechanical Engineering, Loughborough University, UK, 2009
  - MSc. Mechanical Engineering, GIK Institute, Pakistan, 2005
  - B.E. Mechanical Engineering, University of Engineering & Technology Peshawar, Pakistan, 2001
3. Academic experience – institution, rank, title (chair, coordinator, etc. if appropriate), when (ex. 1990-1995), full time or part time: -
  - Mechanical & Industrial Engineering, Sultan Qaboos University
  - Assistant Professor, Sultan Qaboos University, 2013 – present
  - Research Associate, University of Strathclyde, Apr. 2013 - Aug. 2013
  - Assistant Professor, School of Mechanical and Manufacturing Engineering, National University of Sciences and Technology, Pakistan, Feb. 2010 – Mar. 2013
  - Lecturer, Mechatronics Engineering Department, Air University Islamabad, Pakistan, Sept 2005 – Aug 2006
  - Lab Engineer / Graduate Assistant, Faculty of Mechanical Engineering, GIK Institute, Pakistan, Jan. 2002 – Aug. 2003
4. Non-academic experience – company or entity, title, brief description of position, when (ex. 1993-1999), full time or part time: -
5. Certifications or professional registrations: -
  - PE, Pakistan Engineering Council, 2001 – Present
  - CEng, Institution of Mechanical Engineers, UK, 2018 – Present
6. Current membership in professional organizations: -
  - MIMechE, UK
  - Member International Association of Computer Science and Information Technology (IACSIT)
7. Honors and awards: -
  - Best paper award at International Conference on Mechanics and Mechatronics Research (ICMMR), 11-12 June, 2015, Kuala Lumpur, Malaysia
8. Service activities (within and outside of the institution): -
  - Chair, Industrial Training and Alumni Committee (2018-2019)
  - Member, Department Lab/HSE Committee (2016-2019)
  - Member, Seminar Committee (2018-2019)
  - Member, Staff Club, Sultan Qaboos University (2017-2019)
  - External examiner, PhD and MS thesis, Sultan Qaboos University (2017-2018)
  - Reviewer for several journals of international repute (2010-2019)
  - Guest Editor, Special Issue, Recent Advances in Biomaterials for Orthopedic and Dental Implants, (2018)

- Organizer and Chair, 2nd International Workshop on “Engineering in Medicine” Sultan Qaboos University, (December 23, 2018)
  - Instructor, three-day workshop on “Modeling and Analysis of Solids and Structures using ANSYS Workbench” organized by Independent Learning Centre, Sultan Qaboos University, (February 2017)
  - Instructor, workshop on “How to Design Effective Poster” Majan College Muscat, (2016)
  - Instructor, Workshop on “Structural Analysis in ANSYS Workbench”, Sultan Qaboos University, (2015-2018)
  - Instructor, one-week workshop on “Modeling and Analysis of Solids and Structures using ANSYS Workbench” organized by Independent Learning Centre, SQU, (2015)
9. Briefly list the most important publications and presentations from the past five years: -
- **K. Alam**, M. Ghodsi, A. Al-Shabibi and V. Silberschmidt, (2018) Experimental study on the effect of point angle on force and temperature in ultrasonically assisted bone drilling, *Journal of Medical and Biological Engineering*, Vol. 38, pp 236–243.
  - **K. Alam** and S.Z. Qamar, (2018) Experimental study on delamination in conventional and ultrasonically-assisted bone drilling, *Materials and Manufacturing Processes*, Vol. 33, pp 1894–1898.
  - **K. Alam**, A. Al-Ghaithi, S. Piya and S. Ashraf, (2019) In-vitro Experimental Study on the Histopathology of Bone in Ultrasonically Assisted Drilling. Article in press, *Medical Engineering and Physics*.
  - **K. Alam**, S. Piya, A. Al-Ghaithi and Vadim Silberschmidt, (2019) Investigation on the effect of drill quality on the performance in bone drilling. Article in press, *Biomedical Engineering / Biomedizinische Technik*.
  - **K. Alam**, E. Hassan and I. Bahdour, (2015) Experimental measurements of temperatures in ultrasonically assisted drilling of cortical bone, *Biotechnology and Biotechnological Equipment*, Vol. 29, pp 753-757.
  - **K. Alam**, M. Khan and Vadim Silberschmidt, (2014) 3D Finite Element modeling of drilling cortical bone: temperature analysis, *Journal of Medical and Biological Engineering*, Vol. 34, pp. 618-623.
  - **K. Alam**, N. Ahmed and V. Silberschmidt, (2014) Comparative study of conventional and ultrasonically-assisted bone drilling, *Technology and Health Care*, Vol. 22, pp 253–262.
10. Briefly list the most recent professional development activities: -
- Workshop “*Creating Significant Learning Experiences*” Sultan Qaboos University, Sept 2018.
  - Workshop “*Alternative Instructional Strategies*” Sultan Qaboos University, May 2017.
  - Workshop “*Introduction to CDIO Initiative*” by Dr. Juha Kontio, Sultan Qaboos University, May 2016
  - Workshop “*SolidWorks Modeling and Simulation*” Sultan Qaboos University, Jan 2016.
  - Workshop “*Preparing Engineers for Globalized Economy: How to Teach Engineering Students Process Skills*” by Prof. Nikos J. Mourtos, Sultan Qaboos University, May 2015.