



Dr. Ghullam Mustafa Bhutto

Associate Professor (Electrical Engineering), QUEST, Nawabshah, Pakistan &
HOD of Electrical Engineering Technology, QUEST, Nawabshah, Pakistan

PhD (Denmark), M.E (Sweden) and B.E (Pakistan), Member of Pakistan Engineering Council

Dr. Ghullam Mustafa Bhutto is working as an associate professor in the department of Electrical Engineering, Quaid-E-Awam University of Engineering Sciences and Technology, (Nawabshah, Pakistan (www.quest.edu.pk)). He is also HOD and Coordinator of Electrical Engineering Technology at QUEST, Nawabshah, Pakistan. He is Head of Board of studies and curriculum design Committee at the Department of Electrical Engineering Technology at QUEST. He holds a PhD degree in Electrical Engineering from the Department of Energy Technology, Aalborg University, Denmark, more specifically, in the areas of Smart Grids and M.E Degree in Electrical Engineering from Chalmers University of Engineering Technology, Goteborg, Sweden.

The focus of his research is, related with Smart Grids, Distributed Generations, Power systems and power Electronics applications in Power Systems, Power system protection, Power system control by using Power Electronics, Generation of the power by using renewable energy sources like wind, solar systems, Energy Storage, Finger print Technology in Vehicles, automation and control, Electric Vehicles etc.

He has 19 years of teaching experience and working with different cultural heritage and feels proud in adapting to these environments adequately. He has multi-discipline/cross disciplined ability in teaching and he has been teaching core Electrical Engineering subjects at undergraduate, graduate and postgraduate levels, for example Power system control, Power Electronics, Power system Stability and Control, Power system Operation and Control, Advanced Power Electronics, Power System Analysis, Electronics Devices and Circuits, Electrical Power Generation, Distributed Generations, Smart Grids, Power System Protection, Instrumentation and Measurement etc. He has nearly 32 publications in various fields of his interest and expertise is published in refereed journals and conference proceedings.

PERSONAL INFORMATION

- **Gender** Male
- **Date of Birth** August 11, 1981
- **Nationality** Pakistani
- **Marital Status** Married
- **Religion** Islam
- **Link to Google Scholar**
<https://scholar.google.com.pk/citations?user=SGHev0wAAAAJ&hl=en>
- **Link to LinkedIn Profile** <https://www.linkedin.com/in/dr-ghullam-mustafa-33bb3224/>

EDUCATION

- **2014** Doctorate, Ph.D. (Electrical Engineering), Aalborg University, Denmark
Thesis: Control and protection in low voltage distribution grid with the large-scale renewable energy integration
- **2010** M.E (Electrical Engineering), Chalmers University of Technology, Goteborg, Sweden
Thesis: Optimal use of energy storage for series connected voltage source converters
- **2004** **B.E(Electrical Engineering)**, Quaid-E-Awam University of Engineering Sciences & Technology (QUEST), Nawabshah, Pakistan

WORK EXPERIENCE

- June, 2016-To-date **Associate Professor** (Department of Electrical Engineering, QUEST), Nawabshah, Pakistan.
- HOD and Head of Board of Studies and Curriculum Design Committee of Electrical Engineering Technology
 - Teach subjects to undergraduate, Graduate and Postgraduate Students, supervise students in research projects/Theses, and manage students' affairs in Department, University ORIC
 - HEC Approved Supervisor and Member of Pakistan Engineering Council, Islamabad, Pak.
 - Member of several academic and administrative committees such as Advanced Studies & Research Board, Academic Council and Board of Faculty to design policies and syllabus for graduate and undergraduate programs at QUEST and other universities in Pakistan
 - Member of the Pakistan Engineering Council (PEC) accreditation team to accredit and evaluate engineering programs under the OBE system at different universities across Pakistan
 - Member of the Higher Education Commission (HEC) of Pakistan's National Curriculum & Review Committee (NCRC) to design & update curriculum for undergraduate & postgraduate programs
 - Member of QUEST Testing and Recruitment Agency
- May, 2014- June, 2016 **Assistant Professor** (Department of Electrical Engineering, QUEST), Nawabshah, Pakistan.
- April 2005-Dec 2005 Lecturer (Physics), Intelligentsia Science College Moro, Pakistan
- Dec 2005– May 2014 **Lecturer** (Department of Electrical Engineering, QUEST, Nawabshah).

RESEARCH SUPERVISION

- 01 PhD student has completed his PhD studies under my supervision
- Two more PhD students are working under my supervision
- 05 M.E students has completed their research projects/theses under my

supervision

COMPLETED PROJECTS

- Attended EPQU-11 INTERNATIONAL CONFERENCE, PORTUGAL in 2011. Received the funding of 12745 Danish Kronr and funding source was Aalborg University Denmark. With this project I being one of the authors worked on the inverter size optimization which resulted a novel contribution in the field of electrical engineering. Actually, in Solar Pannels or other things like that main cost is used on the purchase of inverter, I/we worked on the optimization of the inverter size which resulted in lowering its cost.
- PARTICIPATED IN THE WORKSHOP ON Renewable Electrical Energy Systems at Barcelona, Spain in 2011. Received the funding of 6600 Danish Kronr and funding source was Aalborg University Denmark. With this I Gained lot of the information related to goals/objectives which were supposed to be achieved in my PhD studies related to /Smart Grids Renewable Electricity. Getting these informative talks from this workshop I published lot of research papers which created lot of good space for new researchers/inventers.
- A project on advanced biometric safety Design on vehicles is completed under my supervision which got appreciation at Mass level.
- Project funded by National Grassroots ICT Research Initiative 2014-2015, HEC, Pakistan on load sharing by parallel transformers using GSM technology was completed under my supervision.

RESEARCH COLLABORATION

- There is active research collaboration with the Department of Energy Technology, Aalborg University of Technology. Joint research is carried out with Professor Claus Leth Bak, Professor Frede Blaabjerg in the same department. There is also research collaboration with Professor Ola Carlson at Department of Electrical Engineering, Chalmers University of Technology, Goteborg, Sweden. The funding required to present and publish research papers was provided by the Department of Energy Technology, Aalborg University, Denmark. There is also research collaboration with Professor Carlo Cecati at L'Aquila University, Italy and published research papers under his collaboration.

SCHOLAR PROFILES

Google Scholar Profile	https://scholar.google.com.pk/citations?user=SGHev0wAAAAJ&hl=en
LinkedIn Profile	https://www.linkedin.com/in/dr-ghullam-mustafa-33bb3224/
ORCID Profile	https://orcid.org/0000-0002-7524-9180
Publons Profile	https://publons.com/researcher/1357080/ghullam-mustafa/
Research Gate Profile	https://www.researchgate.net/profile/Ghullam_Bhutto
Academia Profile	https://jnrt-20078.academia.edu/GhullamBhutto

PROFESSIONAL ACTIVITIES

- **Professional Membership**

- Membership of Pakistan of Engineering Council (PEC)

- **Editorial Board Member**

- Member of Editorial Board in Quaid-E-Awam University of Engineering Sciences and Technology, Nawabshah, Research Journal (QUEST RJ).
- Member of Editorial Board in SCIREA International Journal of Energy

- **Journal(s) Reviewing**

- International Journal of Applied Energy by Elsevier, ISSN. 0306-2619, IF8.6
- International Journal of Energies, MDPI, ISSN. 1996-1073, Impact Factor 2.99

COMPUTER SKILLS

1. DIgSILENT Power Factory
2. PSCAD
3. MS Office, excel, Power Point etc.
4. MATLAB and Simulink
5. Electronic Work-Bench

HONORS AND AWARDS

- Received an Academic Excellence Award for securing 3rd position in the final year Examination of Bachelor of Engineering (B.E) at QUEST, Nawabshah, Pakistan in 2004.
- Received an Award of scholarship amounting 900 Euro per month for perusing MASTERS LEADING TO PhD STUDIES at Sweden and Denmark by Quaid-E-Awam University of Engineering, Science & Technology, Pakistan under Faculty development Program initiated by HEC Pakistan.
- Active role in debates, and social activities including the organization of medical camps, book fairs, and quiz and debate competitions
- Received an Award of scholarship amounting 3300 Danish Kronr for the period three years by Aalborg university, Denmark, 2010.
- Received an Award of PhD Degree in 2014 by Aalborg university, Denmark.
- In Dec 2011, attended Renewable electrical Energy Workshop at University Politecnica De Catalunya, Barcelona, Spain. Funding was provided by Aalborg University, Denmark
- In 2011, presented a conference paper in IEEE International Conference on Electrical Power Quality and Utilization (EPQU), Lisbon, Portugal. Funding to attend and present the paper was provided by Chalmers University, Sweden and Aalborg University, Denmark.
- In Oct 2012, presented conference paper at the International Conference on Smart Grids and Clean Energy Technologies (ICSGCE) held in Hong Kong. Funding was provided by Aalborg University, Denmark
- In Dec 2013, presented a conference paper in Proceedings of the 5th IEEE PES Asia- Pacific Power and Energy Engineering Conference (APPEEC), held in Hong Kong. Funding was provided by Aalborg University, Denmark
- In Jan 2012, completed a PhD course on “Intellectual Property Rights and Innovation” at Norwegian University of Life Science, Norway. The funding for

this course was provided by Norwegian University of Life Science, Aalborg University, Denmark

COMMUNICATION SKILLS

- Ability to work individually/independently as well in a team.
- Quality to adapt to multicultural environments

LANGAUGES

➤ English	Fluent	Able to Speak, write and Read
➤ Urdu	Fluent (National)	Able to Speak, write and Read
➤ Sindhi	Fluent (Mother tongue)	Able to Speak, write and Read