

## **Engr. Dr. Shahid Hussain Abro, PhD.**

- 1. Higher Education Commission of Pakistan (HEC) approved PhD Supervisor**
- 2. Registered Engineer by Pakistan Engineering Council (PEC) Reg: No. Metal 1648**



### **EDUCATIONAL QUALIFICATIONS**

<b>Degree Name</b>	<b>Level (Master/Bachelors etc.)</b>	<b>Institute</b>	<b>Major Subject(s)</b>	<b>End Date</b>	<b>Country</b>
<b>PhD</b>	Doctorate (Full Time)	Korea Advanced Institute of Science and Technology (KAIST). Nano and Functional Materials	Materials Science and Engineering	2016 Feb	South Korea
<b>M.E</b>	Masters of Engineering (Full Time)	NED University of Engineering and Technology	Materials Engineering	2010 Jan	Pakistan
<b>B.E</b>	Bachelor of Engineering (Full Time)	Mehran University of Engineering & Jamshoro Pakistan	Metallurgy	2003 Jan	Pakistan

Industry Experience **3 years**, Teaching Experience **10 years**

### **PERSONAL DETAILS**

Telephone:	+92 21 99264261 ext 2653
E-mail:	<a href="mailto:engrabro@neduet.edu.pk">engrabro@neduet.edu.pk</a>
Nationality	Pakistan

**Total Years of Experience:** 13+ years, teaching, training, research and Industrial experience.

### Employment History:

1. **Assistant Professor** Materials and Metallurgical Engineering Department NED university of Engineering and Technology Karachi Pakistan (2007 to 2017)  
<http://www.neduet.edu.pk/myd/Index.html> (**Current Position**)

**Role:** This newly established department including research and experimental facilities, I took an active part and lead to establish this newly department and its facilities including installation and operation of research and development machines, like heat treatment furnaces, melting furnaces, optical microscopy. I worked as area coordinator of the materials department and class advisor of different batches at undergraduate level

**Role:** Teaching, research, curriculum design, materials lab development

2. **Senior Instructor/Lecturer** Institute of Industrial Electronics Engineering (IIEE).Pakistan Council of Scientific & Industrial Research (PCSIR) Ministry of Science & Technology Government of Pakistan. (2005 to 2007) <http://www.iiee.edu.pk>

**Role:** Incharge of a) Mechanical Workshop b) Materials Testing Laboratory c) Fabrication Laboratory. I teach and train to undergraduate engineers in their projects from different industries. Bench work, filing, milling, lath machine, EDM etc

3. **Assistant Manager (Technical)** Allied Precision Engineering Products Pvt Ltd. Karachi, Pakistan. (Automotive parts manufacturing) (2003 to 2005)  
<http://www.a pep.com.pk>

**Role:** To Supervise the Production Work, Heat Treatment, Lead the team of 20 peoples including technicians and workers. Main tasks were design the heat treatment process to improve the thermal and mechanical properties of the steel components like spindles, gears for the vendor and pressure die casting using melting, homogenizing and then casting in dies and molds to make the engineering components. This role was based in 2 shifts day and night.

### Research Work

1. “Effect of heating rate on austenite formation kinetics in CHQ steel used for automotive applications” International Journal of Sciences and Technology. Volume 6 No. 5, May, 2017

2. Design and development of graphene sand composite by traditional method for drinking water filtration. (Submitted to Journal of Materials Science and Engineering A)

Training and Certification

Institute & Country	Training title	Duration	Description
Bernice McCarthy, Paul Mark (USA)	Teaching around the 4MAT Cycle.	5 days, 45 credit hours	Mastering Learning Design.
Institute of Business Administration IBA AMAN CED university of Karachi Pakistan	Entrepreneurship Workshop	2 Days	designing, launching, and running a new business
Metkon Engineering Bursa (Turkey). <a href="http://www.metkon.com">www.metkon.com</a>	Metallographic Techniques	07 Days	To investigate the Microstructures of Metals
Alser Teknik Ankara(Turkey) <a href="http://www.prothermfurnaces.com">www.prothermfurnaces.com</a>	Heat Treatment Furnaces Calibration And Maintenance	07 Days	Heat treatment Furnaces
Pak-Swiss Training Center (PSTC) Karachi Pakistan. <a href="http://www.pstepk.com">www.pstepk.com</a>	Dies & Moulds Technology	02 Months	Manufacturing methods of Dies and Moulds
United Nations Development Programme (UNDP) & Energy Conservation Center Pakistan. <a href="http://www.undp.org">www.undp.org</a>	Instrumented Tune Up Services Course	01 Month	Computerized Tune up of automotives
N.E.D University of Egg & Technology Karachi. <a href="http://www.neduet.edu.pk">www.neduet.edu.pk</a>	Corrosion Protection Management & ICCP Design Course	03 Days	Corrosion & its protection through ICCP.