Dr. JAHANZEB BHATTI

CONTACT INFORMATION:
Resident of: Flat # A-15, Sunny view apartments, Block 14 Gulistan-e-Johar, Karachi City, Sindh, Pakistan.
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PERSONAL INFORMATION:

Father Name: Siraj Ahmed Bhatti

C.N.I.C. No.: 43203-2684612-7

Nationality: Pakistani

Birth Date: 11 January 1989

Marital status: Married

EDUCATION:

Degree	***Institution / Board***	***Year***	***Division / Grade / Percentage / C.G.P.A***
Doctor of Philosophy	*NED University Of Engineering & Technology, Karachi*	*2025*	*3.85*
Masters of Engineering	*University Malaya (Malaysia)*	*2016*	*Masters by full research (PASS)*
Post-Graduation (Materials Engr. & Tech.	*Mehran University of Engineering & Technology, Jamshoro, Pakistan*	*2012*	*70.8% (1^{st} Division)*
Bachelor of Engineering (Metallurgy & Materials)	*Mehran University of Engineering & Technology, Jamshoro, Pakistan*	*2010*	*72 % marks (1^{st} Division) / 3.2 (C.G.P.A)*
Intermediate/F.Sc (Pre-Engineering)	*Cadet College Larkana B.I.S.E, Larkana, Pakistan*	*2006*	*64 % marks (Grade B)*
Matriculation/S.Sc	*Cadet College Larkana B.I.S.E, Larkana, Pakistan*	*2004*	*76 % marks (Grade A)*

Ph.D Project

- Surface Engineering and High-Temperature Oxidation Resistance of Aluminide Coatings for Turbine Blades

  - Diffusing nickel aluminide bond coat by annealing process to from the most stable passive (Ni_3Al_2 to β-NiAl) layer over pure nickel and CMSX-4 substrate materials.
  - Developing and incorporating various percentage of zirconium as a reactive element in the NiAl bulk metallic alloy to understand the effect of Zr doping in bulk alloy.

- Understanding the oxidation and corrosion behavior performance of various substrates - pure nickel, CMSX-4, NiAl bulk alloy (with and without Zr additions) as well as nickel aluminide coatings.
- To better understand the thermal stability of substrates and coatings at different temperatures.

MASTERS THESIS/PROJECT:

- Structural and mechanical properties of transition metal nitride-based coatings deposited by magnetron sputtering and electrodeposition techniques.
  - Investigated the structural and mechanical properties of four different types of magnetron sputtered and electrodeposited coatings.
- Compatibility of automotive materials in diesel and biodiesel environment.

FINAL YEAR BACHELORS THESIS/PROJECT:

- To Study "Failure of TURBINE DISC SHAFT implanted rotating Blades" of an Aero Engine.
  To study the parameters of some Destructive and Non-destructive testing.
  Sponsored By:
  Pakistan Aeronautical Complex Board Kamra, Attock, Pakistan.

WORKING EXPERIENCE:

- **Assistant Professor**
  NED University of Engineering and Technology
  October 2025 Onwards
- **Lecturer**
  NED University of Engineering and Technology
  July 2019-September 2025
- **Research Assistant**
  University Malaya, Malaysia
  July 2013 – Sep 2016
  Worked in different surface coatings projects, and also analysis various structural and mechanical properties of the coatings.
- **Lab Demonstrator**
  University Malaya, Malaysia
  Sep 201 3 - Apr 201 4
  Demonstrates practical experiments to undergraduate students for material engineering lab (corrosion lab).
- As a Third-party QA/QC, Inspection engineer in Wajeedo International Corporation Pvt. (Ltd), Karachi, Pakistan.
  POSITION: welding Inspection Engineer

COMMUNICATION SKILLS:

- *English*
- *Urdu*
- *Sindhi*

COMPUTER SKILLS:

- *Windows 96, XP,07, 8, 8.1*
- *M.S Office (Word, Power Point & excel)*
- *AutoCAD (2D, 3D)*
- *Origin*
- *Endnote, Mendeley*

MEMBERSHIPS:

- *International Association of Engineers (Member Number: 149620)*
- *The Institution of Engineers, Pakistan, M-21552/KAR-3886*
- *Pakistan Engineering Council (Registration No: METAL / 2697).*
- *Mehranain Materials Advantage Chapter (MMAC).*

INTERNSHIPS:

Organization	Duration
PIA, Precision Engineering Complex (PEC), Head Office Karachi	Two Weeks
United Refrigerators Industries Limited (Dawlance), Hyderabad	Two Weeks

WORKSHOPS, SHORT COURSES & SEMINARS:

- 36 Hours short course on "Computerize Numerical Control (CNC) Machines Programming & Operations".
- One day seminar "Role of Materials Engineering in the field of Science & Technology"
- 15 Days course of "AUTO-CAD 2D & 3D Software".
- One day short course of "Steel Making & Heat Treatment Processes".
- One day short course of "Metal Structures, Practical Approach to Blast Furnace and Bio-Materials".
- 04 Month course of "Office Automation and Secretarial work".
- Organized first Inter class Quiz/Presentation competition (2010) on April 17th at MUET, Jamshoro.
- Organized "International Conference on Advances in Material Science and Environmental Engineering (ICAMSEE) on 25-26 June 2021at NED University of Engineering and Technology, Karachi.

INTERNATIONAL RESEARCH PUBLICATIONS:

1. **Jahanzeb Bhatti**, M.A. Fazal, Abdul Faheem Khan, A.R. Bushroa, M. M. Quazi, Investigation of the mechanical properties of electrodeposited nickel and magnetron sputtered chromium nitride coatings deposited on mild steel substrate, Journal of Adhesion Science and Technology, DOI: 10.1080/01694243.2016.1178027. [Taylor & Francis-ISI indexed, 2.7 Impact factor].
2. **Jahanzeb Bhatti**, M.A. Fazal, Abdul Faheem Khan, A.R. Bushroa, M. M. Quazi. Structural and mechanical properties of (Cr, Ni) N single and gradient layer coatings deposited on mild steel by magnetron sputtering. (Tribology - Materials, Surfaces & Interfaces) 1.7 Impact factor.
3. W. Khalid, M. Hussain, M. Nasir Bashir, M.M. Quazi, Imran Ali, **Jahanzeb Bhatti**, Hammad Ur Rehman. Development of water jet cutting and study on different parameters. (Journal of Applied and Physical Sciences).
4. S. Farrukh Haider, M. M. Quazi**, Jahanzeb Bhatti**, M Nasir Bashir, Imran Ali, Effect of Shielded Metal Arc Welding (SMAW) parameters on

mechanical properties of low-carbon, mild and stainless-steel welded joints: A review. (Journal of Advances in Technology and Engineering Research).

5. Iftikhar Ahmed Channa, Ali Dad Chandio, Muhammad Rizwan, Aqeel Ahmed Shah, **Jahanzeb Bhatti**, Abdul Karim Shah, Abdulaziz Alhazaa, Muhammad Ali Shar and Fayaz Hussain, Solution Processed PVB/Mica Flake Coatings for the Encapsulation of Organic Solar Cells. (Materials), 3.2 Impact factor.
6. M. Nasir Bashir, et.al **Jahanzeb Bhatti**. Systematic Review of Drilling Problems and Their Solutions in Petroleum Engineering. (Journal of ICT, Design, Engineering and Technological Science (JITDETS). Published: 21 December 2021.
7. Abdul Rauf Jamali, **Jahanzeb Bhatti**et.al, Synthesis and Characterization of Silver Nanoparticle-Polydimethylsiloxane (Ag-NP-PDMS) Stretchable Conductive Nanocomposites, (Crystals, W category, 2.67 IF). Published 5/08/2022, https://www.researchgate.net/deref/https%3A%2F%2Fdoi.org%2F10.3390%2Fcryst12081098.
8. Mokhtar Ghodbane a, Boussad Boumeddane a, Fayaz Hussain, et.al, **Jahanzeb Bhatti,** Evaluation of the design and optical errors for a parabolic trough collector field in an Algerian desert region: Gassi-Touil as a study area, (Energy Reports, W category, 4.937 IF), https://www.researchgate.net/deref/https%3A%2F%2Fdoi.org%2F10.1016%2Fj.egyr.2022.11.024.
9. Zubia Anwer, Abdul Rauf Jamali, Waseem Khan, **Jahanzeb Bhatti**, Green synthesis of active Fe_2O_3 nanoparticles using Aloe barbadensis and Camellia sinensis for efficient degradation of malachite green and Congo red dye, (Biomass Conversion and Biorefinery, X category, 4.05 IF), https://doi.org/10.1007/s13399-022-03626-3.
10. Ali Dad, Asif Ahmed, Iftikhar Ahmed, Muhammad Shahzad, **Jahanzeb Bhatti**; Synthesis of Graphene Oxide (GO) by Modified Hummer's Method with Improved Oxidation through Ozone Treatment, (Journal of the Chemical Society of Pakistan, Y category, 0.698 IF), 2/28/2023, Vol. 45 Issue 128, p1-1. 1p.
11. **Jahanzeb Bhatti**, Ali Dad Chandio, Oxidation and Corrosion Evaluation of β-NiAl Coatings Deposited onto Pure Nickel and Superalloy Substrates, ACS omega, 10 (34), 38788-3879, W category, 4.3 Impact factor, https://doi.org/10.1021/acsomega.5c04044
12. A Review of the Transition Metal Nitrides Deposited on Mild steel via Electrodeposition and Magnetron Sputtering (Under Consideration).
13. Processing and Characterization of Zirconium-Incorporated Nickel Aluminide Bulk Alloys for High-Temperature Applications (Under Consideration).

INTERNATIONAL CONFERENCES AND ACHIEVEMENTS:

- A.R. Syakila, M. M. Quazi, M. H. Aiman, Jahanzeb Bhatti. Color laser marking of titanium alloy Ti6Al4V. 1st International Conference on

Advances in Material Sciences and environmental Engineering – ICAMSEE 2021, NED University of Engineering and Technology Karachi, Pakistan (June 25-26, 2021)

- R. Linggamm, Jahanzeb Bhatti, M.M. Quazi. The laser cleaning process for the removal of surface corrosion and paint on stainless steel SS304l. 1st International Conference on Advances in Material Sciences and environmental Engineering – ICAMSEE 2021, NED University of Engineering and Technology Karachi, Pakistan (June 25-26, 2021)
- Jahanzeb Bhatti, M.A Fazal, A.R. Bushroa. Characterization and mechanical properties of (Cr, Ni) N Ternary single and gradient layers deposited on mild steel by magnetron sputtering, 3rd international conference on Advances in Engineering & Technology (ICAET), Kuala Lumpur, Malaysia,26-27 December 2014.
- Certificate of attendance 1st International conference on the science and engineering of materials, University Malaya.
- UMCARES: University Malaya
    - Volunteer in sustainability summit 2013 and environmental ceremony. Aun/seed-net regional conference on materials engineering 2014: um-jwri international (Recognized performance and dedication as a volunteer team member of International conference).
- Best paper presenter certificate, in 3rd international conference on Advances in Engineering & Technology (ICAET), Kuala Lumpur, Malaysia 26-27 December 2014.

REFERENCE:

Professional reference will be furnished upon request.