

SUHAIL MASHOOQUE

Address: **Kathia Bazar Near Police Station Nasirabad, District Kamber_Shahdadkot,**
Sindh, Pakistan

Contact No: (+92)-315-394-9609

E-mail: suhail.mashooque.odhano@gmail.com

Date of Birth: **October 22, 1995** Nationality: **Pakistani**



Education

M.E., Metallurgy and Materials Engineering

Mehran University of Engineering and Technology Jamshoro, Sindh Pakistan

Project: "Corrosion Inhibition Study of Aloe Vera Extract on Mild Steel in H₂SO₄ Environment."

CGPA: 3.75 / 4.00

B.E., Metallurgy and Materials Engineering

Mehran University of Engineering and Technology Jamshoro, Sindh Pakistan

Project: "Green Corrosion Inhibition Efficiency of Medium Carbon Steel by Onion Extract in HCl and Sea Water Environment."

CGPA: 3.64/4.00

Intermediate (HSC-II)

SZABIST Institute of Science and Technology College Larkana, Sindh, Pakistan

Grade: A1 (83.55%)

Matriculation (SSC-II)

Govt. Boys High School Nasirabad, District: Kamber-Shahdadkot, Sindh, Pakistan

Grade: A1 (85.53%)

Professional Experience

Lecturer (on Contract)

(August 2022- Present)

Mehran University of Engineering and Technology Jamshoro, Sindh Pakistan

- Teaching various undergraduate courses:
 - Corrosion and Protection
 - Non Ferrous Metallurgy
 - Materials and Process
 - Biomaterials
 - Manufacturing Engineering

- Member departmental OBE committee.
- Faculty Mentor- Mehranian Materials Advantage Chapter (MMAC)
- In charge of Material Testing Lab-I, Computer & Simulation Lab

Teaching Assistant

(September 2019 – September 2021)

Mehran University of Engineering and Technology Jamshoro, Sindh Pakistan

- Teaching various undergraduate courses:
 - Corrosion and Protection
 - Physical Metallurgy
 - Materials and Process
 - Biomaterials
 - Computer Applications in Materials Engineering
- Worked on R&D project of Archroma Industry, Jamshoro, Pakistan.
- Member of departmental committee for PEC Accreditation

Internee

(June 2016 – June 2016)

Agha Steel Industries, Port Qasim, Karachi, Pakistan

Departments attended:

- Quality Control and Maintenance
- Ladle Refining Furnace (LRF)
- Electric Arc Furnace
- Refractory and Continuous Casting Machine (CCM)

Internee

(June 2017 – June 2017)

Karachi Shipyard & Engineering Works Ltd. Karachi Pakistan

Visited and experienced different departments

- Foundry
- PV Shop
- Machine Shop

Internee

(June 2018 – June 2018)

Fauji Fertilizer Bin Qasim Limited, Karachi, Pakistan

Departments attended:

- Quality Control and Maintenance - Machine Shop

Publications

Journal Papers

- J1. **Suhail Mashooque**, Mukesh Kumar and Imran Nazir Unar, (2022) “Effect of aloe vera extract as green corrosion inhibitor on medium carbon steel in sulphuric acid medium, *Pakistan Journal of Analytical Chemistry and Environmental Chemistry*. [<http://doi.org/10.21743/pjaec/2022.01.07>]
- J2. Abdul Sattar Jatoi; Mukesh Kumar; Vinod Kumar; Sheeraz Mustafa; Umair Aftab; Zubair Ahmed Laghari; **Suhail Mashooque**; Muzaffar Ahmed, (2021) “Graphene Loaded nickel oxide Nanocomposite as anode material for Microbial Fuel Cell”, *Biomass Conversion and Biorefinery*. [<https://doi.org/10.1007/s13399-022-02474-5>]

Conference Papers

- C1. **Suhail Mashooque**, Mukesh Kumar, Filza Naz, Umair Aftab, “Green Corrosion Inhibition Efficiency of Medium Carbon Steel by Onion Extract in HCl Environment”, *1st International Conference on Science, Technology and Innovation-2019, Kinnaird College for Women, Lahore, Punjab Pakistan. (April 2nd -April 4th, 2019)*.

Research Activities

Research Activities:

1- Project Supervised

- Supervised Final Year Research Projects at Department of Metallurgy & Materials Engineering (2023)
- “Temperature Based Study of Corrosion in Acidic Environment”
- Co-Supervised Final Year Research Projects at Department of Biomedical Engineering (2023)
- “Diagnosis of Chronic Kidney Diseases by using fluorescent Nano Particles”.
- Co-Supervised Final Year Research Projects at Department of Biomedical Engineering (2022)
- “Using Nanoparticles for Coating of Dental Implants to enhance Osteointegration.”
- “Synthesis of Sealant Hydrogel for Speedy Wound Healing in diabetic Patients.”

2- Other Research Projects

- Guar Gum as an Eco-friendly Inhibitor for Mild Steel In HCl Environment (2022)
- Water Mellon Seeds used as a Corrosion inhibitor for Low alloy steel in Sea Water Environment (2022)
- Designing and developing of Human Anatomy Models especially of osteoarthritis and Small lungs Cancer on laboratory scale (2021)
- Designing and Modeling of Business Management Models for Industrial Applications (2021)
- Designing and fabrication of Foundry Furnace on laboratory scale (2019)

Research Interest	My academic and research interests are aligned with the field of materials science and metallurgical engineering and highly motivated to conduct world class research in novel materials development for different applications.
Society's Membership	<ul style="list-style-type: none"> • Registered Engineer - Pakistan Engineering Council (PEC) • Regional Head Volunteer of Larkana Region - Let's Walk for Change • Teacher Coordinator - The Big Event • Teacher Coordinator - MUET Model United Nations • Teacher Coordinator -MUET Ramzan Rashaan Drive • Former President - Mehranian Materials Advantage Chapter (MMAC)-2017
Awards & Achievements	<ul style="list-style-type: none"> • Pakistan Education Foundation Need Based Merit Scholarship throughout four-year Bachelor of Engineering (2015-2018) • Merit Scholarship throughout four-years of Bachelor of Engineering (2015-2018)
Academic and Social Activities	<ul style="list-style-type: none"> • Conducted Training on "How to use Q-OBE Software" for Faculty of Engineering at Sindh Agriculture University (SAU) Tando Jam. • Organized and Hosted "1st International Symposium on Advance Materials and Technology" (ISMET'21) at MUET, Jamshoro, Sindh Pakistan • Teacher Coordinator in "MUET MUN" at MUET, Jamshoro • Teacher Coordinator in "Sports Gala" at MUET, Jamshoro • Teacher Coordinator in "Ramzan Rashaan" Drive at MUET, Jamshoro • Teacher coordinator in social event "The Big Event Pakistan" at MUET, Jamshoro • Attended one day training session on "Production & Operation Management", organized by Technology Upgradation & Skill Development Company (TUSDEC). • Attended Seminar on "Revival of Pakistan Steel Mills, Technical Due Diligence" at DUET, Karachi Pakistan. • Participated in three days' workshop on "Advanced Characterization Techniques for Professionals (GC-MS, HPLC, FTIR, TGA/DTA, Elemental Analyzer, UV-VIS, VOD, XRD, SEM, AFM) at SCME, NUST Islamabad Pakistan • Participated and Organized "Plantation Drive" with District Management and Forest Department of District Kamber_Shahdadkot, Sindh, Pakistan. • Participated in "All Sindh Plantation Drive". • Delivered Online Technical Presentation on "Green Corrosion Inhibitors" organized by NACE Islamabad Pakistan Section. • Attended one day short course on "Framework for Damage Mechanics-Based Simulation of Material Failure Processes" at MUET, Jamshoro. • Participated in "Sports Week'18" at MUET, Jamshoro • Participated in "1st International Conference on Advanced Materials and Processing (ICAMP'17), MUET Jamshoro. • Participated in 2nd National Conference on Metallurgy and Materials Engineering at MUET, Jamshoro. • Participated in "Sports Week'16" at MUET, Jamshoro. • Participated in 1st National Conference on Metallurgy and Materials Engineering at MUET, Jamshoro. • Participated in One-Day Seminar on Scope of Metallurgy & Materials Engineering in Various Industries at MUET, Jamshoro. • Attended one day Seminar regarding Modern Era of Metallurgical Industries at MUET, Jamshoro.

- Participated in Inter Collegiate Essay Competition at SZABIST Institute of Science and Technology College Larkana (**3rd Position**).

**Software and
Technical Skills**

Origin 8, Crystal Maker, Ansys Fluent CFD and Microsoft office, Z-View, **Potentiostat**, Zeta Sizer, FTIR, Stereomicroscope, UV-Analyzer, Spark Spectrometer, XRD.

Strengths

- Leadership skills
- Research oriented
- Strong Analytical Abilities
- Event Management
- Motivational Training skills