

Shazeen Akhtar

Materials/Metallurgical Engineer

F825/15-B Holy Family Road Satellite Town Rawalpindi Pakistan

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Field of Work

- Inspection & testing of materials/metals/alloys
- Characterization of materials/metals/alloys
- Welding and joining processes
- Heat treatment & phase transformation processes
- Corrosion mechanisms & prevention techniques
- Nanomaterials and Nanotechnology
- Composite Materials
- Failure Analysis
- Quality Control
- Research and Development

Education

- | | |
|---|----------------------------|
| ✓ MS Material Engineering (Metals and Nano materials) | 2019 |
| Institute of Space technology (IST) Islamabad | (1 st Division) |
| ✓ B.E Material Engineering | 2016 |
| Institute of Space technology (IST) Islamabad | (1 st Division) |
| ✓ Fsc- Pre Engineering | 2012 |
| Punjab Collage (RWP-BISE) | (1 st Division) |
| ✓ Matric (Science) | 2010 |
| Saint Pauls School (RWP-BISE) | (1 st Division) |

Projects and Research Paper

Micro and Nano Scale Patterning of Cadmium Sulphide by Using Soft Lithographic Techniques

BE Final Year Project

Rapid Solidification and Laser Surface to Generate Thin Metastable Surfaces

Ms-Research Thesis

Laser Beam Rapid Solidification of Plasma Sprayed Ni-Al Coatings on Steel
Published Research Paper -IEEE Proceedings (IBCAST-19)

Rapid Solidification and Laser Surface Alloying to Generate Thin Metastable Surfaces
Submitted Research Paper -Scientific.Net Journal (ISAM-19)

Work Experience

Assistant Manager-Materials , Shefai Engineering and Construction
Islamabad, Pakistan — July 2016 to October 2017

Job Roles

- Quality Assurance
- Materials Inspection & Testing
- Organizing and Implementing the Daily Work Plan
- Technical Report Writing

Internee-Heavy Mechanical Complex
Taxila, Pakistan — June 2015 to Aug 2015

Professional Participations

Oral Research Paper Presenter
The 16th International Bhurban Conference on Applied Sciences & Technology (IBCAST)- Jan 2019

Participant- Workshop on Advance Aerospace Materials -CPD 1
Institute of Space Technology (15- 17 July 2019)

Participant- Laser in Industrial Application
Institute of Space Technology (17-18 Sep 2019)

Technical and Computer Skills

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|-------------------------------|--------------------------|
| 1. Optical Microscopy | 2. Metallography |
| 3. Vickers's Hardness Testing | 4. Die Penetrant Testing |
| 5. Tensile Testing | 7. Thickness Monitoring |
| 8. Pin-on-Disk Tribometry | 9. Origin |
| 10. JADE 5.1 (XRD) | 11. MATCH 3(XRD) |
| 14. Microsoft Office | |

Reference will be provided as per demand