

Engr. Muhammad Shafqat

Lab Engineer (Department of Materials Science and engineering)

PAF-IAST, Mang (Haripur)

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Education

- **MS (2024):** Materials Engineering: Department of Materials Science and Engineering PAF-IAST, Mang Haripur.
- **Thesis Title:** Development of High Temperature Oxidation Resistant Thermal Barrier Coating for Nickel Chromium Superalloys
- **B.E (2016):** BSc Metallurgy and Materials Engineering: Institute of Advanced Materials, Bahauddin Zakariya University Multan.
- **Thesis Title:** Fracture Analysis of Gas Pipeline Steel (API X70).

Experience

1: Experience:

- July 2021 to date working as Lab Engineer in Department of Materials Science and engineering PAF-IAST, Mang, Haripur, Khyber Pakhtunkhwa.
- February 2016 to July 2021, worked as Research and Development Engineer in Chicago Group of Industries Multan.

Have experience in thermal barrier coatings, heat treatment and surface treatment of different steels, Characterization of different materials, developing new technologies and Processes, Failure analysis of different products, troubleshooting quality issues and making corrective measures.

2: Research Supervision Experience:

- Supervised Practical work of 02 MS and 04 Bsc. scholars at Chicago Group of Industries Multan.

Projects & Awards

- Development of a Thermal Barrier Coating Material for IC Engine. (0.5 million)
- Development of Chromium -Tungsten Electroplating for Enhanced Wear Properties.