# USMAN CHAUDHRI

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**MERCK Full Time: 7 Years**

**Operations Manager. Merck, West Point. HPV and Recombivax 3 years**

* Support upstream fermentation processes for two vaccine product lines, HPV & Recombivax
* Perform manufacturing investigations for deviation management
* Perform equipment hazardous energy control lockouts and DeltaV automation manipulations for continuous operations.
* Maintain facility infrastructure and GMP inspection readiness; implement preventative safety measures; update and improve standard operating procedures

**Senior Engineer Operations. Merck, Elkton. VA. 2 Years**

* Worked in a multi-process manufacturing environment.
* Provide Technical Support during Whole Broth Extraction, Purification, Organic Synthesis, Filtration and Drying processes.
* Achieving safety, quality, and environmental compliance excellence in all assignments
* Providing technical leadership and support for a sterile manufacturing facility, including data analysis, troubleshooting, problem solving, coaching/teaching, and report writing
* Collaborating with cross-functional teams across levels, including leading teams or groups
* Initiating, supporting, or leading change control implementation
* Leading and conducting technical investigations to determine the root cause of issues.
* Recommending and implementing corrective and preventative actions
* Executing continuous improvement projects
* Recommending, creating, writing, reviewing, and approving procedures, instructions, protocols, and other Good Manufacturing Practices (GMP) documentation

**Senior Specialist, Engineer. Merck, Elkton VA 2 Years**

* Responsible for the smooth operations of: Powerhouse, Utility systems, including but not limited to: chillers, Air Handler Units (AHUs), WFI loops, clean steam generators, vapor compression stills, programmable logic controllers (PLCs), humidifiers/dehumidifiers, Variable Frequency Drive (VFD) controllers and monitors.
* Supported safety and Ergonomics Team.
* Conducted FMEA and RBAM investigations.
* Utilities Finance council Team Lead.

Asset Integrity / Reliability Engineer at MISTRAS Group, Inc. Houston, TX Feb 2015 – Mar 2016

Provides mechanical engineering and consulting services to clients in:

* Identifying potential threats to the pipelines, vessels and tanks.
* Selecting and validating methods of assessment.
* Evaluating defects and providing rehabilitation solutions consistent with the integrity management plan.
* Conduct Post-Assessment analysis to recommend future action plans and safe assessment intervals.

**Asset Integrity Projects:**

* Fitness for service Assessment of Pressure vessels and Heat exchangers at **Marathon Refinery.**
* Performed Integrity and suitability assessment for vessels installed at **Chevron Chemical Plant**.

**Technical Lead Engineer at Sep-Pro Systems, Houston, TX Dec 2013 – Feb 2015**

* Provided technical support to design engineers in Pressure vessel and Heat exchanger design.
* Assisted with technical support for Piping Engineers in Piping Design and Piping Stress Analysis.
* Provided technical support for rotating equipment engineers in sizing of pumps, compressors, and electric motors.
* Technical Support for operations manager in welding processes and welding procedures for Pressure vessels.

**Scheduled, executed and managed all engineering and technical tasks for the following projects**:

* 300 BPD Crude Oil Topping unit
* 200 ton/day Urea Production

**TECHNICAL SOFTWARE EXPERTISE:**

* Delta V
* SAP
* GLIMS
* PAS-X

**CERTIFICATIONS:**

* Six Sigma Black Belt Professional (SSBBP) by Management and Strategy Institute
* Six Sigma Green Belt Professional (SSBBP) by Management and Strategy Institute
* Power Plant Operating Engineer by American Society of Power Engineers.

**EDUCATION:**

Master’s in Business Administration, MBA

JAMES MADISON UNIVERSITY, Virginia. May 2019

Doctor of Engineering,

LAMAR UNIVERSITY, Texas. Dec 2014

Master of Engineering

National University of Sciences and Technology, Pakistan June 2010

Bachelor of Engineering

National University of Sciences and Technology, Pakistan July 2008