

<b>Job Title:</b>	Lead Automation Engineer	<b>Job Category:</b>	Manufacturing
<b>Department/Group:</b>	Microbiology / Fermentation	<b>Salary Range:</b>	\$100 - 120 / yr
<b>Location:</b>	St. Louis, MO	<b>Travel Required:</b>	Limited
<b>Grade/Level:</b>	Senior Engineer	<b>Position Type:</b>	Full Time

## Summary

Crysalis Biosciences has an immediate opening for a lead automation engineer at our St. Louis 55MM gallon per year ethanol plant. This position will be responsible for running, maintaining, and updating the ethanol plant's process control system. This position works within the plant engineering and operating team and reports to the VP of Operations. Specific duties include adding i/o points and functionality to the plant Distributed Control System (DCS) and Programmable Logic Controller (PLC), updating the user interface to the needs of the operators, tuning PID loops, managing historical data collection, integrating data collection with the Laboratory Information Management System (LIMS), and adding other logic to the DCS as needed by the operators to ensure continuous and smooth operation of the plant.

Please send a resume and cover letter to [employment@crysalisbio.com](mailto:employment@crysalisbio.com) to be considered.

## Job Description

### ROLE AND RESPONSIBILITIES

- Work with VP of operations to understand key needs of the plant operation team as it relates to automation and process control.
- Responsible for continuous improvement of the plant DCS, LIMS, and PLC systems
- Update the DCS and PLC systems as needed to requirements of the operators
- Add i/o points and functionality to the control system as needed
- Tuning of PID loops to maximize process efficiency and minimize downtime
- Updating the HMI interface as needed
- Setting up and maintaining systems for historical data collection from the plant operations
- Monitoring and maintaining remote access infrastructure for Crysalis teams around the world
- Function as a key contributor on new projects and initiatives.
- Help build / change corporate culture that represents Crysalis' core value at grass-root level.

### ORGANIZATIONAL RELATIONSHIPS

- Reports directly to the VP of operations

### QUALIFICATIONS AND EDUCATION REQUIREMENTS

- Preferred B.Sc. in computer science, electrical engineering, chemical engineering or related field
- 3+ years experience in plant automation in a 24/7 manufacturing environment

**PREFERRED SKILLS**

- Proven experience programming PLC systems
- Experience with Siemens PCS 7 systems
- Python coding ability
- Experience designing and implementing common industrial network architectures such as the Purdue model
- PID loop tuning experience
- Knowledge, experience, or willingness to learn digital twin software (e.g. GPROMS)
- Ability to construct and maintain firewalls and security systems around the plant automation system
- Experience with Allen-Bradley and Rockwell DCS and integrating multiple types of DCS into harmonized HMI and data collection dashboards
- Good communication skills and the ability to work well with people at all levels, educational background, etc., are essential.
- Strong organizational skills required.
- Strong technical background and ability to troubleshoot and solve complex problems.
- Strong desire to learn new skills in large scale fermentation and biological manufacturing

**ADDITIONAL NOTES**

- Company health insurance plan is provided

Reviewed By:	E.M. Karp & S. Gandhi	Date:	7/9/2024
Approved By:		Date:	
Last Updated By:		Date:	