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## Plant Engineer

**Required Education:** BS or MS Engineering      **Job Type:** Biotech, Manufacturing, Research

**Required Experience:** 5+ years      **Base Pay:** N/A

**Required Travel:** Negligible      **Location:** US-WI-Franklin

**Employee Type:** Full-Time      **Manages Others:** No

**Reports To:** Director of Process Operations      **Industry:** Microbiology, Biotechnology

**Shift:** 1st, Variable as Needed      **Weekend Work:** Occasional

### Company Description

Microbial Discovery Group is an R&D driven microbial cultivation and fermentation company. MDG provides bioaugmentation products and solutions for a multitude of industries. MDG excels in new product innovation, customer focused manufacturing and technical support expertise.

### Job Description

The Plant Engineer assures that equipment used in the day-to-day manufacturing and blending of bioaugmentation products is performing in optimal conditions and actively participates in the implementation of new equipment and processes.

## Position Responsibilities

- Ensures the proper operation of the following plant equipment:
  - Bioreactors (fermentation vessels)
  - Refrigeration Equipment
  - Boilers
  - HVAC
  - Air Compressors
  - Blenders
  - Centrifuges
  - Freeze Dryers
  - Chillers
  - Make-up Air Units
  - Backup Generator
  - Pin Mills / Grinders
- Troubleshoots and isolates equipment problems (mechanical and electrical).
- Works with maintenance personnel to implement repairs while minimizing impact to production.
- Establishes and adheres to preventive maintenance schedule using web based preventative maintenance software.
- Documents all maintenance and repair activities.
- Interpret, understand, and assist in the development of technical documents such as P&ID, Equipment Lists, Logic Diagrams, and Schematics.
- Coordinates with outside mechanical and electrical contractors to perform work outside of MDG core competencies.
- Oversee installation and commissioning of new plant floor equipment.
- Integrate existing standalone equipment into corporate network for the purpose of remote monitoring and control.



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## Position Responsibilities—Continued

- Perform PLC and HMI software updates when required.
- Generate documentation such as User Requirements Specification, Functional Specifications, Hardware Design Specifications, and Software Design Specifications for new MDG projects.
- Develop interface to collect production data to a network database (Access or SQL Server).
- Work closely with Quality Control department to assure compliance with Good Manufacturing Practices (GMP).
- Evaluate current and emerging technologies for possible use at MDG.
- Will be required to perform other duties as requested, directed or assigned.

## Work Environment

- Plant environment is not temperature controlled. Working around steam, mechanical systems, pressure points, chemicals, power distribution and other potential hazards.



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## Other Qualifications

### Education/Experience

- Bachelor of Science or Master of Science degree in Electrical, Mechanical, or Chemical Engineering
- 5+ years of experience in installing and maintaining plant floor mechanical and electrical systems
- Manufacturing, fermentation or chemical product operations experience highly desirable

### Licenses/Certifications

- None

### Physical Demands, Work Environment

- Ability to lift 50 or more pounds periodically
- Ability to work around chemicals including enzymes
- Regularly required to sit or stand and move about the facility
- Exposure to shop elements such as noise, dust, fumes and odors

### Safety Requirements

- Follow all company safety procedures and safety regulations



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## Required Skills

- Keen troubleshooting and analytical skills
- Experience with industrial equipment such as steam generators, refrigeration, and air compressors
- Knowledge of industrial components and instrumentation
- Knowledge of industrial computer systems, PLC's, HMI's, motor controls, and power technologies
- Knowledge of specialized equipment such as bioreactors, centrifuges, and freeze dryers is desired
- AutoCAD familiarity
- Demonstrates proficient computer skills, especially with MS Office and database applications
- Expertise with biotechnology operations including fermentation and CIP/SIP is preferred
- Demonstrates proficiency in basic math skills
- Ability to complete projects within specified timelines
- Excellent attention to detail and accuracy
- Outstanding organizational skills and ability to multi-task in a fast-paced environment
- Self-motivated. Ability to work effectively with minimal supervision
- Excellent communication skills (oral & written)
- Ability to work well with others



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## How to Apply

- Begin the process by submitting your resume [HERE](#).
- You must also complete a Culture Index Survey [HERE](#) in order to be considered for the position. Your application will not be reviewed without the completion of the survey.

## Additional Resources

For more information about MDG and the type of work required, check out the following resources:

- [MDG Facility Tour](#)
- [Custom Fermentation](#)

For additional information, please contact us at:

[info@mdgbio.com](mailto:info@mdgbio.com)