



# Services – Maintenance & Reliability

## History

Evergreen Engineers PLLC was established in 2022 by Bradley Cowell. Brad pulled from his technical degree of mechanical engineering and experience within biorefineries to establish an engineering firm that adapts to the customer needs.

## Our Services

Evergreen Engineers supports improvement initiatives within industrial and manufacturing facilities. We specialize in commissioning and start-up, process optimization, maintenance & reliability engineering, and process safety.



## Contact Information

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## Program Development

- Equipment Set-up
  - Computerized Maintenance Management System
  - Criticality Review
  - Preventative Maintenance
  - Predictive Maintenance
    - Machinery: vibration, oil analysis, infrared
    - Instrumentation: calibration and functional checks
    - Electrical: NETA, MCA, infrared
    - Fixed: API inspections
  - Job Plan Development
- Work Management
  - Identification
  - Planning
  - Storeroom/Kitting
  - Scheduling
  - Execution
  - Repairable Processes
- Metrics Monitoring/Reporting
- Failure Modes and Effects Analysis

## Program Management

- Key Metrics Monitoring
  - Equipment Health
  - Work Management Health
- Planning
- Scheduling
- Preventative Maintenance Optimization
- Predictive Maintenance
  - Optimization
  - Execution
    - Vibration (field collection or wireless technologies)
    - Oil Analysis
    - Infrared
    - MCA
- Defect Elimination
  - Root Cause Analysis Facilitation
  - Mechanical Design Upgrades

**Mission:** Bring an adaptive and distinctive engineering experience to our customers.