

ENVIRONMENTAL SYSTEMS CORPORATION

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NGen Next Generation
Manufacturing Canada

ENVIRONMENTAL SYSTEMS CORPORATION

- ESC assists in any manufacturing process that requires a controlled environment where temperature, humidity, pressure and particulates are critical to product quality.
- Our why is “CREATING ENVIRONMENTS FOR SUCCESS”, which goes beyond the critical environments we build, it is educating our clients on new technology and looking to their future, as well as providing a stimulating environment for our Team to stretch and grow.
- Industries we assist are Pharmaceutical, Optical, Electronics, Nuclear, High Potency / Biological Containment and High Value Agriculture

PROJECT DESCRIPTION:

Utilize real time monitoring of Critical Environments for regulated manufacturing processes to monitor, assess, optimize and perform verification of manufacturing processes. This will provide real time secured and validated reporting, AI verification that is more robust than "second person" verification and real time monitoring to reduce or eliminate periodic validation requirements for book ending production campaigns.

PROJECT OBJECTIVES:

- Real time monitoring of Critical Environments – Temperature, Humidity, Differential Pressure
- Generate Regulatory compliant data meeting "21 CFR Part 11" utilizing blockchain.
- Leverage AI & Real Time Imaging to replace second person verification more consistently to confirm gowning and manufacturing activities.
- Optimize Critical Environments enterprise wide through usage patterns and behaviour data to optimize facility performance, preventative and predictive maintenance, scheduling and batch record generation.

PROJECT
DURATION:
24 months

STARTING
MRL LEVEL:
1

ENDING
MRL LEVEL:
8

OUR EXPERTISE AND ROLE IN THE PROJECT:

- Design, build, manufacturing and monitoring of critical environments.
- Integration of systems
- Wholistic approach and understanding of facilities, manufacturing and operations on the team.

EXPERTISE WE ARE LOOKING FOR:

- Regulated Industry manufacturing partners in Pharmaceutical, Biotech & Life Sciences.
- Automation and Integration partners to leverage data from the environment and capture behaviours and performance in real time.
- AI and machine learning partners to generate algorithms to augment and replace second person verification in manufacturing.
- Predictive and preventative maintenance expertise

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