

A testing laboratory **SAVES THOUSANDS OF DOLLARS** per year with **NIST traceable sensors and simplified calibration.**



INDUSTRY

- Agricultural
- Animal
- Food



PRIMARY VALUE

- Regulatory Compliance
- Process Optimization



APPLICATION

- Lab Monitoring

SITUATION

THE LABORATORY USED A HOMEMADE SYSTEM FOR TRACKING EQUIPMENT, AND THIS INVOLVED A LOT OF TIME AND RESOURCES.

The laboratory was using a homemade system of continuous monitoring nodes for tracking their equipment.

“The nodes were wired into panels. We had to run wires all the way through equipment, drill holes in them. It was a pretty crude system. We built the software around it utilizing offsets from an HVAC company,” said Jessica, head of Quality Assurance.

In addition to being a crude system that involved a lot of manual set-up time, the alerts system was complicated to set up and required regular calibration.

In addition, their lab is required to be NIST compliant, which means all of the equipment must be serialized and accounted for with NIST on a yearly basis. Getting their homemade system compliant required two people spending two months of working time per year to verify all of the equipment.

SOLUTION



[ELEMENTAL MACHINES’] SYSTEM IS VERY FLEXIBLE AND CAN MEET WHAT THE DEPARTMENT SUPERVISORS WANT TO KNOW.”

The laboratory decided to implement Elemental Machines. All of EM’s equipment is NIST traceable so it can be immediately installed and used in their lab.

Elemental Machines also implemented a custom calibration feature that allows the laboratory to hire a third-party calibrator or use their own staff to calibrate devices. This is a huge time saver as they do not have to manually calibrate the equipment internally as they did with their previous setup.

“Any suggestions that we have, they are always willing to listen to us,” Jessica said. “One of the biggest things they implemented recently was a calibration dashboard so we could put offsets in there when we do our annual verification.”

The flexibility of the alerting system has been a boon for the laboratory’s operations as well.

“We’re able to set different alerts per department. Some departments want alerts and notifications every few minutes, some once an hour. The system is very flexible and can meet what the department supervisors want to know,” Jessica said.

RESULTS + BENEFITS

ELEMENTAL MACHINES’ NIST COMPATIBILITY SAVES TIME, [TRANSLATING] INTO THOUSANDS OF DOLLARS A YEAR SAVED IN LABOR COSTS.

NIST Traceable

Elemental Machines equipment is NIST traceable and can be installed immediately.

Saved Time and Money

Elemental Machines’ NIST compatibility saves time spent manually serializing their previous system. This time savings translates into thousands of dollars a year saved in labor costs.

In-Situ Calibration

Elemental Machine’s equipment can be easily calibrated, which allows a third-party calibrator or the lab’s staff to calibrate existing devices compliant with standard operating procedures.

Alert Flexibility

Thanks to the easy-to-set-up alerts system and the flexibility per user, the laboratory can have department-specific notifications.

“Any suggestions that we have, they are always willing to listen to us. We have been very impressed with Elemental Machines and enjoy working with them.”

JESSICA | Quality Assurance Director