WE'RE ALL ABOUT

# TEMPERATURE-CONTROLLED LABORATORY EQUIPMENT

All Scientific Technology Group (AST) provides specialized repair, maintenance, and calibration for $CO_2$ incubators, centrifuges, and temperature-controlled research equipment. These instruments are the backbone of cellular research, diagnostics, and pharmaceutical testing, and their accuracy directly impacts experimental validity, compliance, and safety

## CHALLENGE

Laboratory equipment rarely "fails suddenly" it **drifts, contaminates, or degrades quietly over time**, compromising results long before a full breakdown occurs.

**$CO_2$ incubators accumulate bacteria, fungi, and condensation buildup**, putting cell cultures at risk of contamination.

**Centrifuges lose speed accuracy or develop rotor imbalance,** generating inconsistent separations or dangerous mechanical stress.

**Uncalibrated or poorly maintained devices lead to irreproducible data, compliance violations, or emergency shutdowns.**

Labs cannot afford downtime or, worse, **unnoticed deviation.**

## SOLUTION OVERVIEW

AST implements **structured, ISO-aligned maintenance and calibration programs** designed to ensure **environmental stability, mechanical safety, and performance accuracy** across core laboratory equipment.

We service:

- **$CO_2$ Incubators, Cleaning, disinfection, $CO_2$ sensor calibration, airflow & humidity verification**
- **Centrifuges, Rotor inspection, balance testing, bearing & seal checks, RPM/G-force calibration**
- **Refrigerated Chambers & Temperature-Controlled Units: Thermal accuracy mapping and alarm verification**

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## KEY BENEFITS

- Protect Experimental Integrity: Guaranteed Temperature, Humidity & $CO_2$ Accuracy
- Stay Audit-Ready: Digital Calibration Records & SOP Compliance
- Prevent Contamination & Mechanical Failure Before They Happen
- One Service Partner for Multiple Lab Assets: No Need for Multiple Vendors
- Extend Equipment Lifespan & Avoid Emergency Replacements
- AST performs ON-LINE troubleshooting utilizing a structured call avoidance algorithm before dispatching a technician. Historically avoiding 8% of unnecessary dispatches.

## HOW IT WORKS

01 **Asset Tagging, Evaluation & Compliance Requirement Review**

02 **Scheduled Cleaning, Calibration & Component Inspection**

03 **Sensor, Rotor & Speed Verification Against Manufacturer Spec**

04 **Report of Findings with Pass/Fail Indicators & Corrective Actions**

05 **Maintenance Records Stored in Equip ID™ for Traceability & Audits**

ALL SCIENTIFIC TECH

EXCEPTIONAL EQUIPMENT SERVICE IS IN OUR DNA.
INNOVATIVE TECHNOLOGY IS IN OUR TOOLBOX.

ISO 17025

(718)756-8100
sales@alscientifictech.com
www.allscientifictech.com
Repair depots in NY, NJ, PA

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