

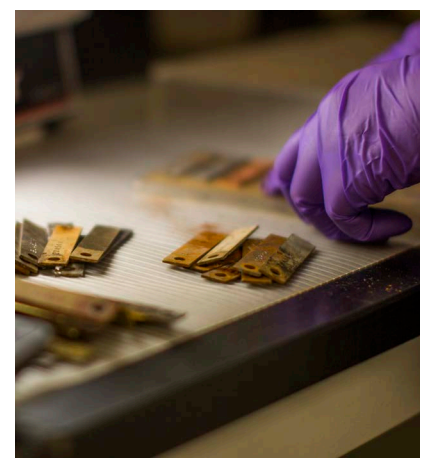
Laboratory Support for Data Center Customers

ChemTreat's state-of-the-art laboratory provides insights and technologies that help data centers maintain reliability and uptime in cooling towers, closed loops, and direct-to-chip systems.

Analytical Water & Materials Analysis

Using advanced instrumentation and proven methodologies, our analytical lab provides actionable insights for troubleshooting issues and enhancing treatment programs.

- Eight-channel liquid particle counter for particle size analysis
- Ion chromatography for anion analysis
- High-performance liquid chromatography (HPLC) for corrosion inhibitor and degradation testing
- Inductively coupled plasma (both ICP-OES and ICP-MS) for cation and metals testing
- Total suspended solids testing
- Inorganic deposit analysis by X-ray fluorescence (XRF)
- Organic classifications by Fourier transform infrared spectroscopy (FTIR)
- Total organic carbon analyzer
- Corrosion failure analysis
- Scanning electron microscope (SEM) for surface analysis and ion identification
- Leica high-definition microscope with fluorescence and video capture
- qPCR and flow cytometry testing for microorganisms
- Planktonic and sessile bacteria enumeration via MPN
- Multi-metal corrosion testing



Comprehensive
Certificates of Analysis
and field service reports



3-5 day average
turnaround for sample
analyses

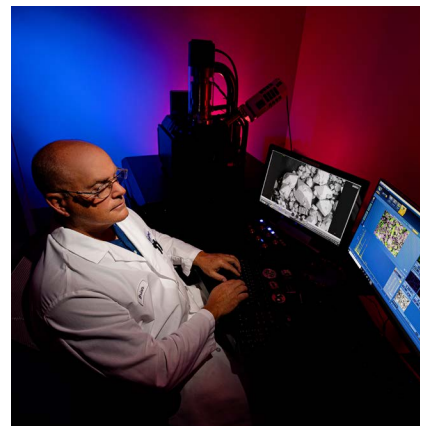


Research & Development for Next-Generation Technologies

Our R&D staff is focused on developing solutions tailored to the unique and complex water treatment challenges faced by the data center industry.

Combining years of expertise with leading analytical equipment and processes, this team designs custom formulations to help data centers maintain operational performance, improve PUE and WUE metrics, and meet environmental targets.

- Direct-to-chip and cooling loop analyses
- Heat transfer fluid performance evaluation
- Corrosion inhibitor product dosage impact studies (conductivity, chloride, total dissolved solids)
- Temperature-controlled, sparged spinner bath corrosion screening
- High-speed rotating cylinder electrode for linear polarization resistance corrosion testing
- Pilot cooling tower studies with water from customer sites
- Scale inhibitor product screening and performance evaluation
- Cleaning efficacy test equipment and surfactant/solvent capabilities
- RO membrane autopsy and cleaning
- Humidity chamber environmental stress testing
- Adiabatic media treatment compatibility evaluation
- Biocide performance and evaluation



MAXIMIZING THE POWER OF WATER®

© 2026 ChemTreat, Inc.
5640 Cox Road / Glen Allen, Virginia 23060
800-648-4579
www.chemtreat.com