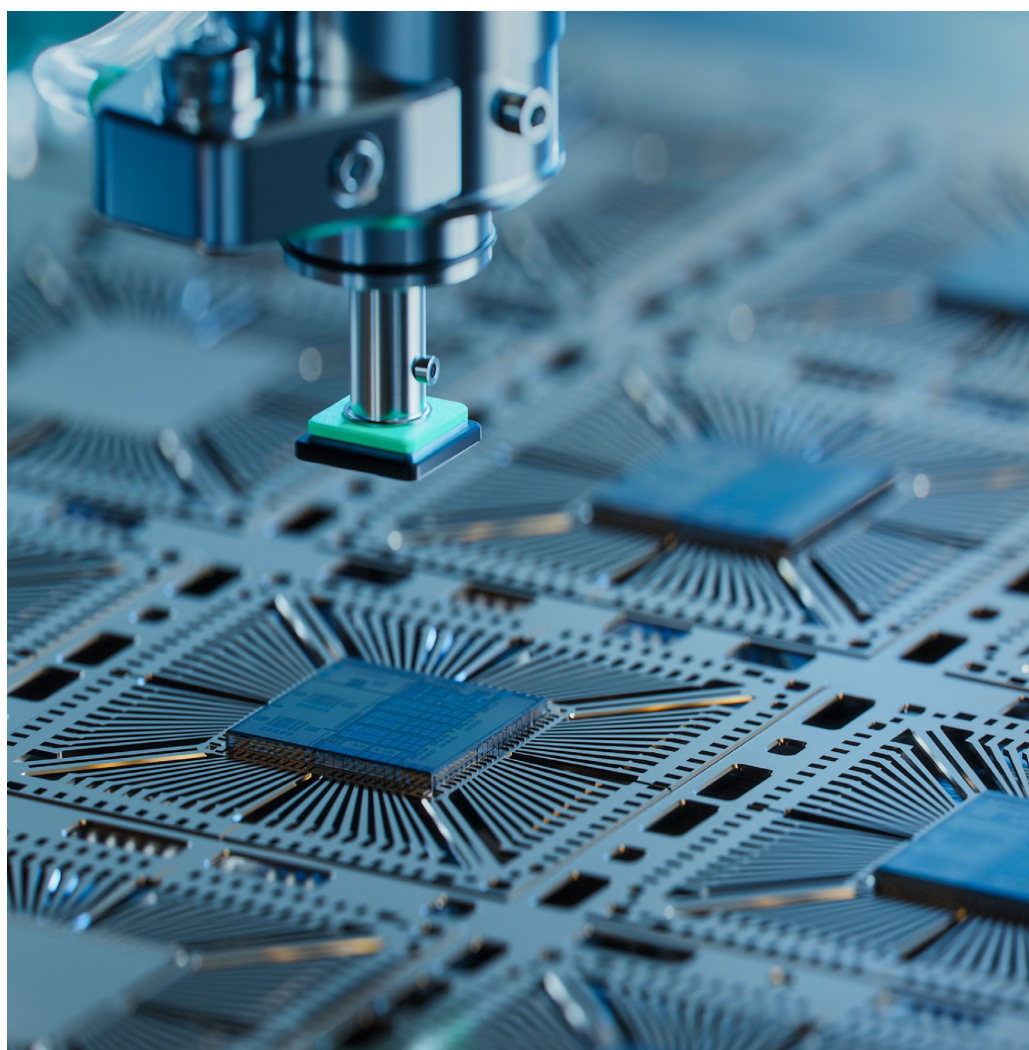


Optimizing Semiconductor Operations

Improve uptime, meet regulatory standards, and gain a competitive edge with comprehensive programs customized to your needs.





03

Semiconductor Companies

Optimized operations

Custom solutions built for the demands of semiconductor facilities

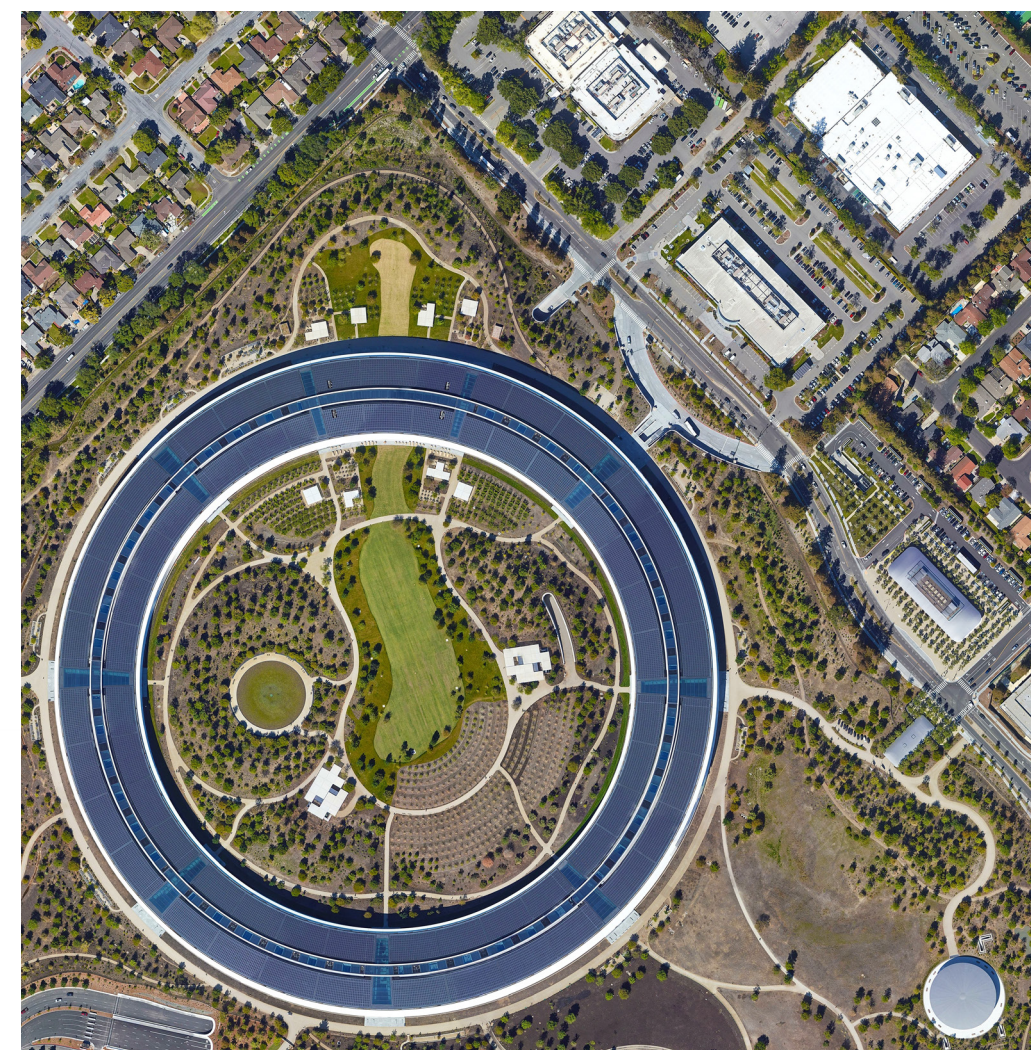


04

Solution Spotlights

Semiconductor services

Full range of solutions for semiconductor facilities



07

Facility, Engineering, and Infrastructure Solutions

Why ABM?

Industry experience and capabilities to improve business



09

Exceeding 99.9%+ uptime

Case study

Silicon-Valley based manufacturer improves their uptime

Optimized operations

Custom solutions built for the demands of semiconductor facilities

To meet extraordinary demand for microchips, uptime is non-negotiable, contamination is a constant concern, and efficiency is the key to success. Every aspect of facility operations, from temperature control systems to lighting, matters.

ABM understands how to navigate the complexities of your environments. Through meticulous, compliant cleanroom and janitorial protocols, we help mitigate particulates. Our proactive technicians maintain your infrastructure so your systems operate at peak performance. And we fill in gaps in your facility, from the mailroom to the distribution center, to keep your operations flowing.

As federal investments in chip manufacturing, such as the CHIPS and Science Act, create new opportunities, semiconductor manufacturers need strategic, expert partners to meet the moment. Our end-to-end solutions help you unlock growth potential and stay ahead of the curve.

Semiconductor services

We provide a full range of tailored solutions for semiconductor facilities. With ABM taking care of your facility, you can focus on your core business.

JANITORIAL

- Cleanroom (ISO 1-9)
- Super clean
- General office
- Warehouse / logistics
- Waste disposal

OPERATIONS & MAINTENANCE

- Mechanical, electrical, plumbing
- NETA, test and balance, commissioning
- Project management
- CapEx / OpEx
- Auditory compliance
- Fire and life safety program management
- Logistics and inventory control

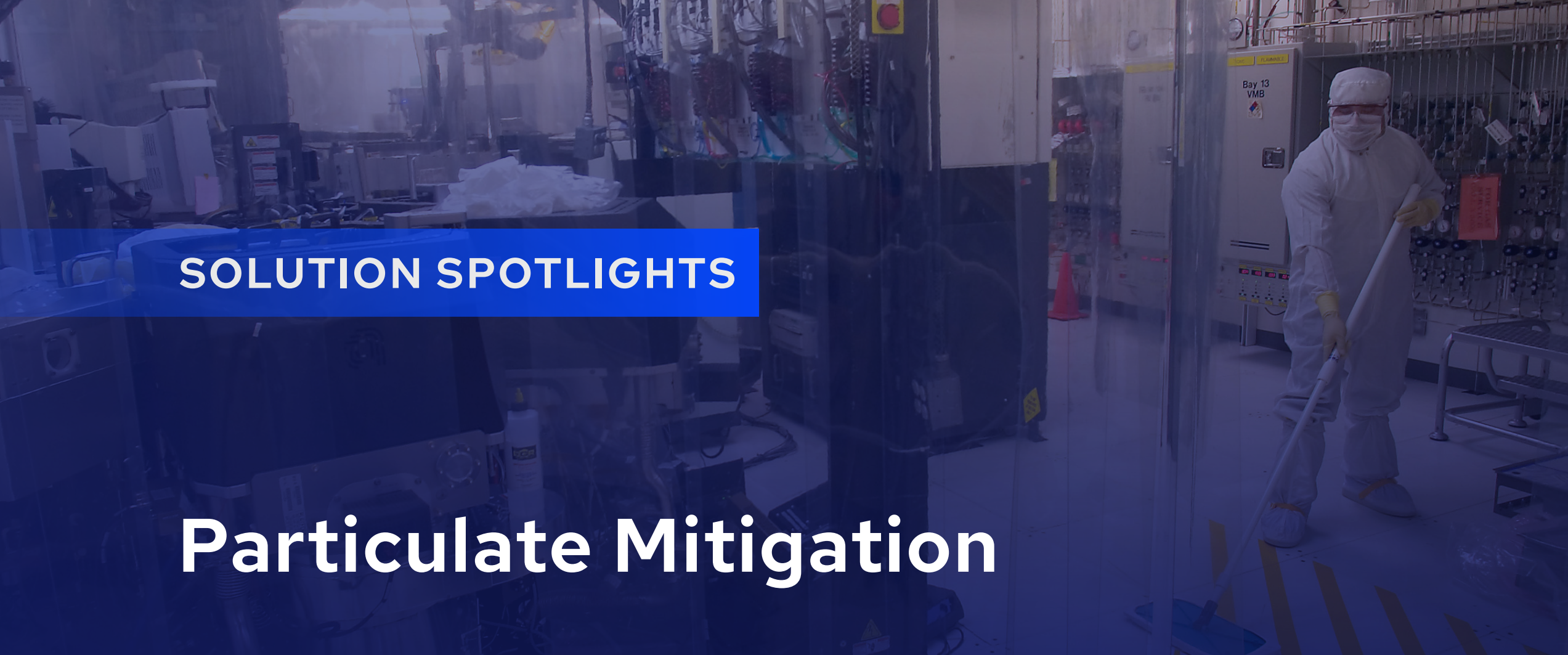
SPECIALTY SYSTEMS

- Gas and chemical process control
- Hazardous material handling
- Ultrapure water
- Vacuum pumps
- Heat exchangers
- Process exhaust
- Cleanroom test and balance

TOOL COORDINATION SERVICES

- Base build
- Tool move-in logistics
- Receiving, rigging, and setting
- General labor
- Tool vendor support
- Tool install field service engineers
- Cleanroom workmanship course





SOLUTION SPOTLIGHTS

Particulate Mitigation

When even a single speck of dust can compromise manufacturing output, meeting high standards for cleanliness and contamination control is an absolute necessity.

ABM provides particulate mitigation and disinfection, as well as scientific glass washing, gown management, and vivarium services.

Our certified teams are trained to keep you in compliance with company and industry standards in controlled and non-controlled environments:

- **Follow your protocols** for change control, deviation control, and corrective and preventive action (CAPA).
- **Share inspection reports** and other relevant documentation through ABM Connect™ for Secured Locations.
- **Perform investigations and write-ups** as needed, with verification of all prescribed follow-up actions.



Building Engineering & Maintenance

Keeping your building systems and machinery operating at peak performance is essential to boosting the bottom line.

With over 10,000 onsite engineers on staff, ABM is a leader in field engineering. We can take care of the full range of your building's needs with HVAC, mechanical, electrical, and plumbing maintenance and repair.

Additionally, we specialize in semiconductor manufacturing process exhaust test and balance. We've developed protocols that enable us to bring tools online without a disruption to production allowing you to reduce costs and meet your deadlines.

You can count on us to keep your systems and assets operating at their best:

- **Prevent failures and downtime** with data-driven proactive maintenance.
- **Provide onsite supervisors** who learn your facility inside out and ensure accountability.
- **Drive sustainability** with energy efficiency, resource consumption, and resilience improvements.
- **Implement modernization projects** to future-proof your facility.



SOLUTION SPOTLIGHTS

Construction Services

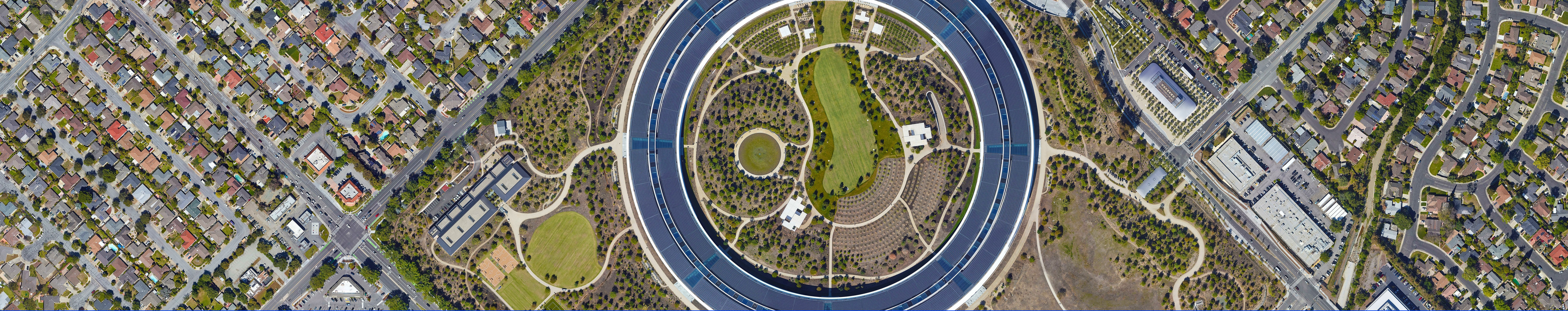
When you're expanding an existing facility or building an entirely new space, the project isn't complete without construction services.

ABM ensures the job is done. Whether we're removing debris installing building systems or performing fine detailing work, our services promote safety, efficiency, and your image.

Count on us to handle your needs, no matter the stage of construction:

- **Use proper equipment and tools** to effectively remove debris and dust.
- **Perform cleaning and system inspections** to ensure that the facility is ready for occupancy.
- **Work around your schedule** to keep your project on track.
- **Leverage construction expertise** to take on every job, no matter how complex.

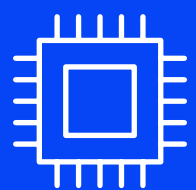




Why ABM?

ABM has the industry experience and capabilities to improve operations throughout your semiconductor facility. When you work with ABM, you work with a team committed to the highest standards of quality.

ABM serves 185M+ square feet of semiconductor space.



SEMICONDUCTOR EXPERTISE

We work with 20+ semiconductor companies and we're well-versed in all of your environments: R&D, cleanrooms, distribution centers, and office space.



MULTI-SITE, MULTI-SERVICE SOLUTIONS

No matter the size of your footprint or the number of services you need, ABM can support your business, all with a single vendor.



CUSTOMIZED PROGRAMS

We develop custom programs and semiconductor industry-specific operating protocols to meet the needs and priorities of your environments.

With ABM, outcomes are a priority

A good facility services program is about more than just checking off tasks on a to-do list. At ABM, we prioritize your production outcomes so every aspect of our services aligns with your goals.

OPTIMIZATION AND PRODUCTION UPTIME

- Reinvesting cost efficiencies back into your core business
- Removing middleman fees from having multiple subcontractors
- Preventing business interruptions
- Providing scheduling and production support

SAFETY

- Meeting your safety, compliance, and regulatory requirements
- Providing a safer work environment that helps prevent accidents and protect employees
- Mitigating and managing your operational risk

EFFICIENCY

- Extending the lifecycle of your buildings, assets, and equipment
- Reduce impacts to production (ITP)
- Making your facility systems more efficient—and less expensive—to operate



CASE STUDY

Exceeding 99.9%+ uptime for a global materials engineering corporation

ABM is partnered with a Silicon Valley-based manufacturer to reduce operating costs and keep its facilities running at peak performance 24/7.

CHALLENGE / Identifying a partner with proven industry expertise

To stay competitive, the leadership team at this tech company must focus on innovation, production, talent acquisition, and satisfaction. They needed a facility services expert to take care of ensuring uptime, maintaining compliance, and providing a comfortable and safe environment for employees. Finding a partner with experience in their environments was essential.

SOLUTION / Comprehensive facility programs delivered by experts

- Technical maintenance and safety solutions for the company's critical controlled environments
- Custom transportation program and waste management program
- Self-performed services to promote quality, consistency, and accountability
- Customized dashboards, benchmarking, and automated work order management

Services provided:

- Administrative and event services
- Janitorial services
- Facilities engineering and technical services
- Landscape and grounds
- Sustainability
- Transportation and valet services

BENEFITS / Achieving budget, uptime, compliance and sustainability goals

- **Consistently achieving year-over-year savings** despite annual union labor increases
- **Continually exceeding uptime KPIs** with rates of 99.9%+
- **Maintaining compliance** with strict critical system and clean room regulations
- **Improving sustainability** through better transportation utilization, waste diversion, and drought management, as well as lighting and energy efficiencies
- **Assisting with achieving LEED certification points**

Powered by technology, driven by data

ABM delivers the outcomes you expect by empowering our teams with technology and data. We leverage innovative tools to provide you with dashboards and reports to gain full visibility into your operations.

OUR TECH STACK INCLUDES:

- **Advanced data platform** with predictive analytics and benchmarking to track asset health and GMP tasks
- **Streamlined SOPs** around how data is collected, used and visualized—both internally and externally—providing greater transparency and improved operations
- **Ability to integrate** with leading CMMS for workorder and asset management capabilities
- **Additional technology enablers**, such as those needed to support predictive maintenance, IoT sensors, smart building capabilities, artificial intelligence and machine learning

And it's not just coming in and setting it up. It's not just maintenance. It's the ease of knowing you'll never have to worry about it again.



Meet your uptime expectations

Keeping up with unprecedented demand requires nonstop operations. ABM takes a proactive approach to preventing unplanned downtime.

Every aspect of our services, from cleanliness to backup power, supports security and non-stop performance. We combine predictive maintenance strategies, continuous monitoring, smart energy management, and contingency planning to keep you up and running around the clock.

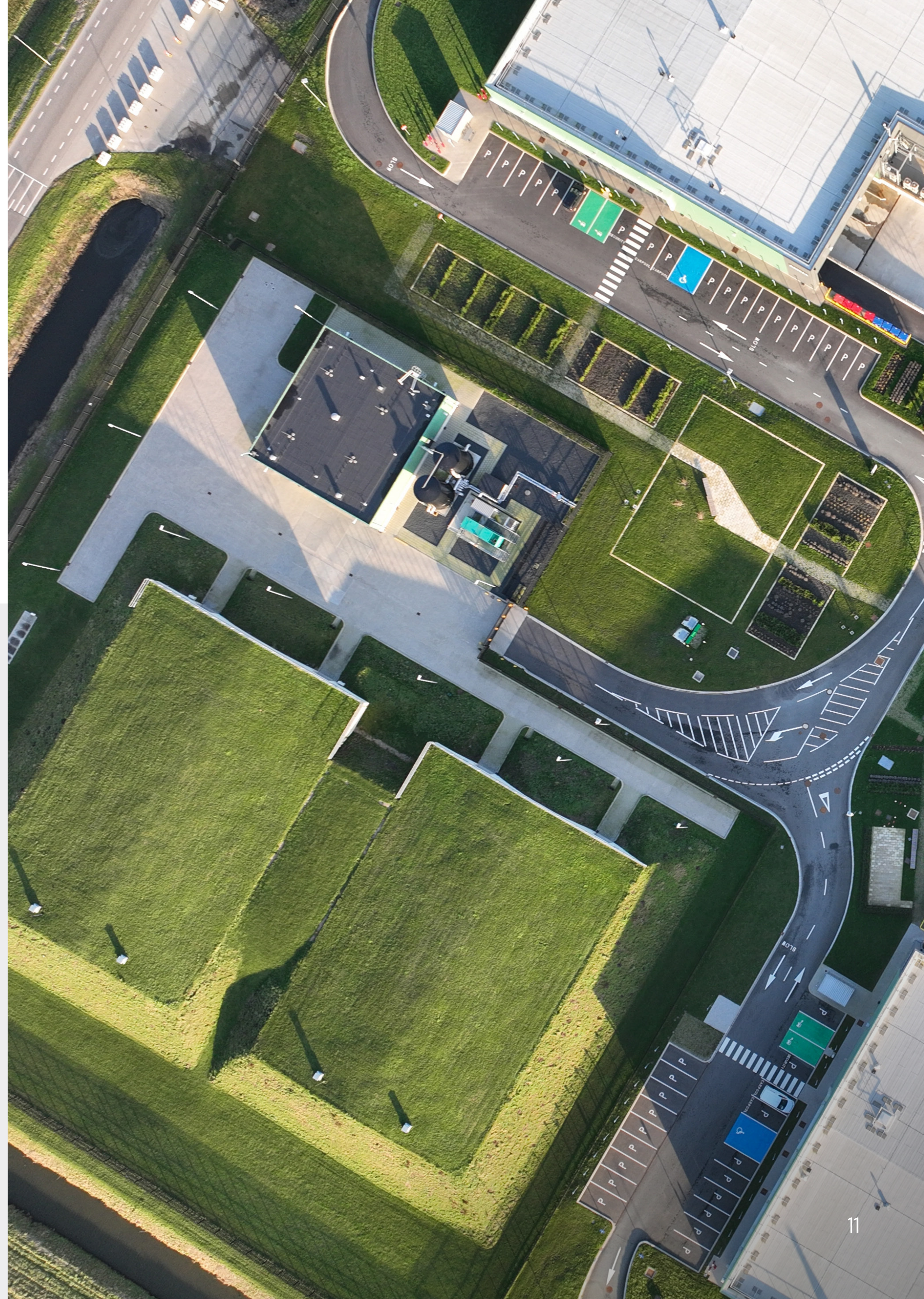
In the event of an emergency, our technicians provide a prompt response. We work side-by-side with you to address safety hazards and restore operations.

Make the most of historic investment

With the CHIPS and Science Act, semiconductor companies have a landmark opportunity to reshape the face of technology manufacturing. Getting your facilities operational—and keeping them that way—requires careful coordination and expertise.

ABM can be there every step of the way:

- Advise on maintenance implications of construction decisions.
- Provide cleanup services and support for the transition from the construction phase to occupancy.
- Take a lifecycle approach to caring for your assets.
- Support future expansions, renovations, and improvements.



Enter the next era of chip manufacturing with confidence

ABM's semiconductor facility experts can deliver the level of precision, service consistency, and coordination required to stay competitive.

Our dedicated teams work proactively to ensure the optimal performance of your facilities:

- Maintain uptime with a whole-facility, data-backed approach to predictive maintenance.
- Meet compliance and quality standards with our expertise in industry standards and regulations.
- Streamline your vendor relationships by consolidating services with a single partner.

Visit [ABM.com/semiconductors](https://abm.com/semiconductors)
or call 866.624.1520.



FACILITY ENGINEERING & INFRASTRUCTURE **SOLUTIONS**

ABM drives possibility through facility, engineering, and infrastructure solutions across a wide range of industries. Our inclusive teams work together to advance a healthier, more sustainable, ever-changing world. Under our care, systems perform, businesses prosper, and occupants thrive. Every day, over 100,000 of us work together with our clients to care for the people, places, and spaces important to you. We are making spaces smarter, modernizing infrastructure, and transforming facilities to become more resilient.

Driving possibility, together.