Optimize your environment, maximize your results

Site Services available for pre-installation.

Maximize performance, quality, and uptime from day one.

Your electron microscopy (EM) system is engineered for unmatched resolution and reliability—but its performance depends on more than its advanced technology and software. Environmental factors like electromagnetic interference (EMI), vibrations, acoustic disturbances, temperature, and humidity can all cause deviations from system specifications and impact the quality of your data.

Our Site Services team can partner with you to ensure you get the most out of your EM system, from selecting the right physical placement to maintaining optimal site conditions.

Whether you're preparing a new EM lab, planning site modifications, or renovating an existing facility, we can help ensure the environment surrounding your instrument supports optimal performance—and improves the speed and reliability of your workflow.

Why choose Site Services for pre-installation?

Your EM system represents a considerable investment of budget, resources, space, and time. Our Site Services team can help ensure you can utilize your system as quickly and effectively as possible.

Minimize risks and maximize uptime.

Get data-driven recommendations about the environmental factors that can impact successful operation of your instrument, so you can be confident it's providing the best quality output to meet your needs.

Get a clear picture of site conditions.

Our site advisory solution, measurements, and reports help you understand whether your site meets the required specifications for your instrument and what steps are needed to improve site conditions.

Avoid unnecessary expenses.

We provide the information you need to plan for successful installation and address any environmental issues, so you can avoid costly delays, downtime, and the need to relocate your instrument before it is delivered.

Access expert guidance and proactive support.

Our Site Services team has a deep understanding of your EM system's technology and site specifications. We partner with you throughout the site planning process, ensure a smooth handoff to the installation team, and can provide personalized recommendations for your team to improve site conditions.

We assess the environmental factors that can impact your instrument, impede your workflow, and ruin your results.

Floor vibration caused by factors such as foot traffic or building structural vibrations

Electromagnetic interference (EMI) such as from nearby electrical systems or lab equipment

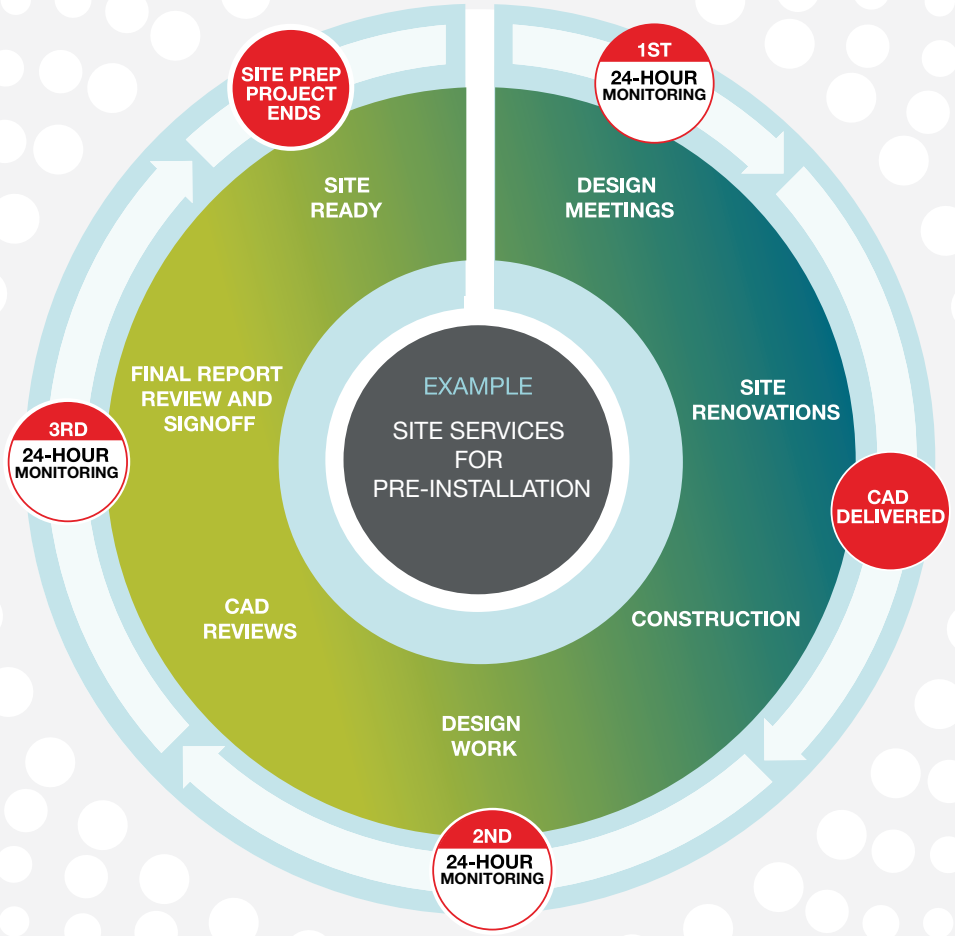
Fluctuating ambient temperatures and **humidity levels**

High acoustic noise levels from sources such as HVAC system, building infrastructure, or adjacent rooms

Site Services available for pre-installation: existing or to-be-built facility

Our Site Services portfolio includes services to evaluate and provide recommendations to address environmental issues that could affect the operation of your EM instrument. Our Site Services team will work with you to design the service plan that best meets your business goals, applications, site conditions, and stage of operations.

Site Services roadmap example: existing or to-be-built facility



Please note: *Our Site Services offering is focused on the environmental conditions of your EM lab; it does not include evaluation of the EM instrument or how it functions. Some services are only available for either existing facilities or to-be-built facilities.*

Site Services available for pre-installation

Project kickoff & team meetings

The process begins with a meeting between our team and yours. We'll align on needs, expectations, and the scope of your service plan. We'll also schedule regular meetings to provide updates, flag and address any issues or problems, and provide recommendations regarding the environment of your EM lab.

Initial survey(s)

24-hour monitoring

This survey evaluates environmental conditions throughout a 24-hour period. (For existing facilities only.)

Green field survey

This survey is designed to measure ground vibration levels at your proposed location. The results will be provided to you along with recommendations to guide floor design.

Construction plan review

As an optional service, our team can review your construction plan for a planned facility or one that is currently being built.

Based on survey results, our team will provide a report and recommendations for mitigating any identified environmental issues that could impact your instrument's performance.

CAD drawing

Our team will deliver a CAD drawing with precise dimensions and utility requirements (e.g., electrical, gas, water, ventilation). This includes all of your EM lab spaces including your microscope room, service room, operator room, and server room.

The CAD drawing helps our team evaluate whether your instrument will fit and perform accurately within your lab, identify any layout or utility issues, and help you ensure that safety regulations and accessibility requirements (e.g., clearances and egress paths) are met.

We'll discuss the CAD drawing with your team and provide recommendations for mitigating any identified issues.

Final survey & report

At the end of the pre-installation process and based on the results of previous surveys and any site modifications made as a result of our recommendations, we will perform a final survey and deliver a final report. Your final report will include a summary of our measurements and any additional recommendations for optimizing your EM lab environment.

Optional
Site Services available for pre-installation

If your project doesn't require the full range of Site Services available for pre-installation described above, you have the option to purchase the following services as needed. Our Site Services team can help determine the best options for your site and situation.

Site Measurement Packages

One-time snapshot (1 hour)

This can be a useful option for environments that do not change substantially over time. The snapshot survey can help you evaluate potential locations for your EM instrument, including size, environmental requirements, and potential environmental disturbances and interferences that could impact your instrument's performance.

24-hour monitoring

This monitoring evaluates environmental conditions throughout a 24-hour period. It is valuable for measuring how the environment's conditions fluctuate from morning to night, as factors like temperature and humidity can significantly change throughout the day.

7-day monitoring

This monitoring includes analysis of environmental disturbances that may occur throughout the week and weekend. A 7-day survey is essential for conducting highly sensitive and critical analyses. It will monitor environmental conditions over the week, capturing variations in foot traffic, temperatures, and vibrations.

CAD drawing services

Your CAD drawing will include precise site dimensions and utility requirements (e.g., electrical, gas, water, ventilation). It will be delivered in a standard format (DWG) which can be used by other partners to be integrated in their architecture plans. Benefits include:

- Resolves space, layout or utility issues early, preventing costly delays
- Enables contractors and facility managers to plan infrastructure upgrades ahead of time
- Helps ensure safety regulations and accessibility requirements are met
- Provides a shared visual reference for all project stakeholders

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