

We provide customized solutions in your data center and can answer questions such as:

- What are power, cooling and I/O data center best practices?
- We are nearly out of power in our data center. How can IBM help?
- How can virtualization help reduce energy demand in our data center?
- Where can I find the power and heat load values for my specifically configured server system?
- How do IBM products compare with competitors based on performance/Watt, performance.
- What are the power trends of the IBM product line?
- How should we integrate IBM products when our data center limit is 5 kW per rack?
- What is the IBM approach for reducing carbon emissions? European laws are requiring us to show a year-to-year reductions.
- How should I design a new data center for the best cooling and power?
- Should I consider water cooling in a new data center?

For more information on these and other offerings, contact your sales representative or IBM STG Lab Services:

All Geographies

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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput or performance improvements equivalent to the ratios stated here.

The IBM home page on the Internet can be found at **ibm.com**

**IBM Systems and
Technology Group
Lab Services**



Keeping our clients in the race
IBM Data Center Services

Who We Are

IBM® Systems and Technology Group (STG) Lab Services team is composed of experts who develop and deploy solutions across IBM's family of system offerings. From in-depth product expertise, to knowledge transfer, to platform-specific hardware and software solutions, we're here for you!

Imagine a team of system and storage experts within IBM available to work on your most pressing IT issues—that's IBM STG Lab Services! In addition to skills honed in IBM's development labs, the STG Lab Services team brings with it the value of experiences gleaned from the delivery of core business solutions through thousands of client and business partner engagements worldwide.

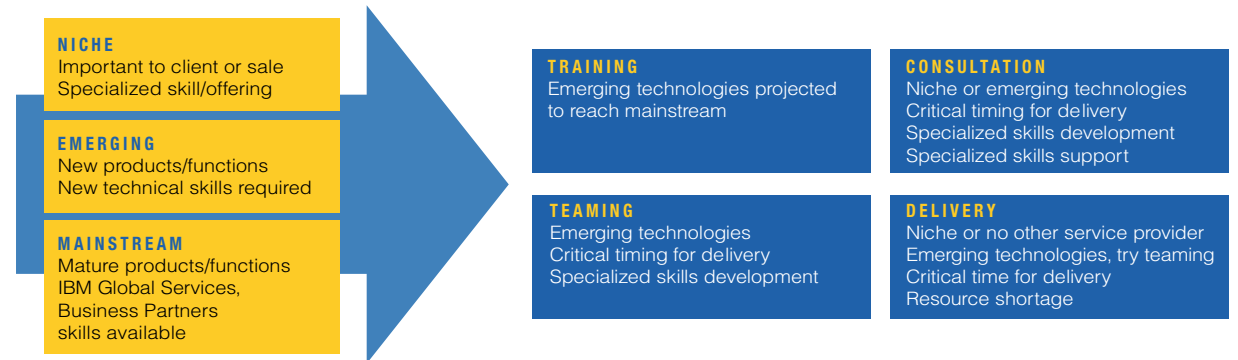
Our consultants can provide assistance in all phases of a development or implementation project. You can have us handle the tasks, or we can work side-by-side with your technical team to help transfer knowledge and skills to your team in the process.

Not Just Any Service

Lab Services are delivered through the IBM STG labs—we help design engineer the products. You can take advantage of that knowledge to maximize your technology and solution investment. We complement the IBM and Business Partner service offerings with the skill depth of our team, but you may be pleasantly surprised by how easy and reasonably you may be able to bring our world class skills and experience you to work for or with your team!

It's true: In today's business race, winners know when and how to pick a savvy teammate. And STG Lab Services could be the best resource in your race!

When to use IBM STG Lab Services



IT Systems Energy Efficiency Assessment

- A rapid assessment that investigates and analyzes your IT power, cooling and space utilization. IBM STG Lab Services can develop a solution that may reduce power, cooling, and data center space required by IT considering the capacities, constraints, and your goals.

Server and Storage Power/Cooling Trends and Data Center Best Practices Evaluation

- IBM STG Lab Services evaluates power/cooling trends of current and/or next-generation IBM products and deliver insight into the requirements they will place on the your facility.

Data Center Health Audit

- A health evaluation of the physical infrastructure of your data center and facility can assist in planning for future requirements. IBM STG Lab Services identifies and makes recommendations to reduce risks associated with the existing infrastructure and improve site availability.

Installation of Cool Blue Rear Door Heat eXchanger (RDHX)

- Eliminate data center hot spots with energy efficient cooling with an examination, by IBM STG Lab Services, of your server layout, develop a 3D layout of the complete system, create a project plan, and install and verify its operation.

Data Center Thermal Analysis and Optimization

- Optimize your data center thermal profile to eliminate hot spots and reduce energy consumption of existing or future data centerspace, installed IT equipment load, and data center features.

Data Center Energy Efficiency Optimization

- IBM STG Lab Services can make recommendations to reduce wasted energy to lower operating expenses through an evaluation of current data center IT equipment and facility infrastructure power demand, efficiency, and capacity.

IT Systems Performance and Power Evaluation

- This IBM IT Systems Rationalization Study with a power component is an effort to determine the steps needed to maintain or reduce power levels of your current data centers and still increase their IT performance.

A Team With Powerful Offerings For You

Inside are just some of the key services and products available to you through STG Lab Services! If there is something you need assistance with that is not listed, there may be an offering or custom solution available to you!