

Sustainable Lab Solutions





Massachusetts Institute of Technology | Building 4

Payette | Columbia Construction Co

LEED Gold Certified

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ABOUT US

Lab Crafters is a leading provider of comprehensive laboratory solutions for renowned pharmaceutical, life sciences, higher education, and medical research organizations worldwide. Our services maximize value across every aspect of the project lifecycle, from lab space design to the production and delivery of high-performance fume hoods and flexible workstations.

COMMITMENT

Our commitment to lab **safety, sustainability,** and **performance** is underscored by our enduring involvement with the Scientific Equipment and Furniture Association SEFA®, our membership in the U.S. Green Building Council® (since 2004), and our adherence to industry standards. We are committed to sustainable and timeless lab solutions that serve our clients now and into the future.





New York University | Molecular Nanoscience Laboratory

Page | Turner Construction
Photo Credit: Kevin Chu | KCJP

Crafting Labs to Serve Our Future

As Jane Goodall once noted, "Sustainable manufacturing is no longer optional... it's a responsibility we must embrace for the health of our ecosystems and future generations."

Scientists demand a focus on the science and health of our planet. Because our mission is in service to science, we are committed to making a climate-positive impact through sustainable lab solutions. Our commitment is grounded in a solid foundation of guidelines, standards, and certifications that underscore our sustainable practices, production methods, and products. At Lab Crafters, we focus on laboratory design solutions that reduce waste, anticipate change, maximize value, and support a circular economy.

The following pages highlight 8 impactful ways we are driving sustainable change.



Howard Hughes Medical Institute | Janelia Research Campus

Rafael Viñoly | Turner Construction

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Photo Credit: Jeff Goldberg | Esto

A Legacy of Sustainable Innovation

In an era where sustainability and performance are non-negotiable, institutions are increasingly turning to proven high-performing, environmentally responsible solutions.

As a long-standing member of the Scientific Equipment & Furniture Association (SEFA) our sustainable manufacturing practices include rigorous product testing to SEFA performance standards and reflect the principles first established by Labs 21. As early as 1997, we introduced Air Sentry®—the industry's first low face velocity, high-efficiency fume hood—which continues to lead in performance and energy efficiency today. In 2008, Lab Crafters was recognized with the International Institute of Sustainable Laboratories (I2SL) "Go Beyond" Award. Lab Crafters stands at the forefront of this need, backed by decades of experience in sustainable design, precision manufacturing, and industry-recognized innovation.



Johns Hopkins University | Undergraduate Teaching Laboratory

Ballinger | Whiting Turner

LEED Platinum Certified

Photo Credit: Karl Connolly Photography

Reducing Energy Consumption High-Performance Fume Hoods

Laboratories today face mounting pressure to outperform basic code compliance—pushing beyond LEED®, achieving lower energy use intensity (EUI) targets, while serving complex needs of convergent research environments, often with higher fume hood densities.

The solution? Combined high-performance building systems and lab solutions that deliver measurable results. Lab Crafters' Air Sentry® high-performance fume hoods are industry leaders—using up to 50% less energy than conventional models while maintaining superior safety and performance. Engineered to encourage optimal user behavior, our ventilation solutions not only significantly reduce energy consumption and life cycle costs but also empower our clients to meet bold sustainability and performance goals in even the most resource-intensive labs.



Amherst College | New Science Center
Payette | Barr & Barr
LEED Gold Certified
Photo Credit: Chuck Choi | OTTO

Prioritizing Health, Safety & Well-Being in the Lab

As laboratories evolve with increasingly diverse users and complex workflows, prioritizing health, safety, and well-being in a shared lab environment is critical to protecting researchers from hazards and repetitive stress injuries.

In support of SEFA's mission to create humane, safe, and effective laboratory environments, Lab Crafters offers thoughtfully designed solutions that promote ergonomic efficiency, safety, and overall user comfort. Designed to promote optimal lab user behaviors, our Air Sentry® fume hoods are ergonomically engineered to ensure safe and comfortable operation. Our laboratory solutions can integrate effortless worksurface height adjustability, dynamically supportive seating, and seamless integration of AV accessories at the lab bench, such as monitor arms and keyboard trays. To enhance visual comfort and focus, we can integrate LED task lighting and UL GREENGUARD certified work surfaces with a light reflectance value (LRV) of 45 or greater, fostering a well-lit, productive lab environment.



Flagship Pioneering | One Charles Park
SGA | Commodore Builders
LEED Silver Certified
Photo Credit: Ari Burling

Adaptability for Growth: Designing Flexible Lab Solutions

Flexibility is the new imperative. As new disciplines emerge and interdisciplinary research expands, laboratories must adapt to both anticipated and unforeseen changes.

Lab Crafters' mission is to create agile, state-of-the-art lab environments that evolve with science and technology. Our lab solutions are sustainably designed for durability and to endure changes in the lab-ensuring low maintenance, operational efficiency, and extended lifecycle support. I-FLEX, our most popular lab solution, was designed and engineered to empower labs for continuous change. Our Dimension System, a traditional favorite, is a self-supporting, movable system that comes pre-wired and pre-plumbed to meet the demands of evolving research. Both are purpose-built to support new applications and the shifting needs of modern laboratories.



Butler University | Science Complex
BSA LifeStructures | Pepper Construction
LEED Gold Certified
Photo Credit: Caleb Tkach, AIAP

Recirculation Over Exhaust: The Eco-Friendly Fume Hood Revolution

As construction costs rise with the number of fume hoods, institutions are reimagining teaching laboratories to address sustainable design imperatives while teaching green chemistry principles.

One area gaining significant traction is the adoption of filtered fume hood technology, dramatically reducing the energy burden on HVAC systems. This innovation is well-suited to teaching labs, where consistent airflow and safety are critical, but where the use of hazardous materials is generally controlled and predictable. Filtered hoods offer universities a way to lower both operating costs and carbon emissions without compromising safety or functionality. Lab Crafters can help institutions provide and integrate filtered-fume hood technology in addition to Air Sentry® high-performance ducted hoods, thereby maximizing energy efficiency while maintaining safety standards required in an academic lab setting.



Building Sustainable Operations

As sustainability becomes a core value for both customers and companies, organizations increasingly seek partners committed to environmental and social responsibility.

Lab Crafters prioritizes a sustainable workplace, safe and responsible manufacturing, employee well-being, and community impact. We foster a culture of continuous learning through regular training in safety, hazard recognition, ergonomics, product development, and equipment use. Across Operations, Engineering, Supply Chain, and Project Management, our LEAN Roadmap drives measurable improvements by eliminating delays, resolving quality issues, and streamlining communication. Through these efforts, Lab Crafters is building a stronger, more sustainable workplace and contributing to the well-being of our employees and local community.



Environmental Stewardship and the Circular Economy

We're inspired by academic clients who are decarbonizing their campus footprint, and by pharmaceutical clients who model environmental stewardship throughout the entire product lifecycle— R&D, manufacturing, packaging, and disposal.

Lab Crafters is deeply committed to sustainable practices across our manufactured products. We prioritize responsible supply chain management and source our primary material—steel—with a recycled content of 62%. Our powder coating process is VOC-free and uses a state-of-the-art recovery system to capture and reuse overspray, generating no hazardous waste. The majority of our materials are inherently non-emitting sources of VOCs, and we can provide worksurfaces that meet UL GREENGUARD Gold certification. Lab Crafters promotes a circular economy by continually reducing scrap, minimizing waste, recycling materials, and ensuring that 95% of its packaging is recyclable or reusable.



Confidential Biopharmaceutical Client

DGA | Jacobs | DPR Construction
LEED Gold Certified | LEED Zero Carbon | IWBI WELL
Photo Credit: Bernard André Photography

Labs for LEED®

LEED has become a baseline for many institutions, healthcare and life science companies facing growing pressures to address high-energy demands with environmental responsibility in some of the most resource-intensive environments.

Lab Crafters is a U.S. Green Building Council® member, with LEED accredited professionals on staff. We provide clear guidelines on how our products contribute to LEED criteria, helping project teams integrate our sustainable solutions into their credits. Our manufactured products robustly contribute to materials & resources, indoor environmental quality, and exemplary performance. Our products are featured in lab facilities that have achieved the highest LEED certifications including: Platinum, LEED Zero Energy, and LEED Zero Carbon, including International WELL Building Institute (IWBI) WELL®, and Fitwel® certifications.

Sustainable Design

We are committed to sustainable and timeless lab solutions that serve our clients now and far into the future.



Materials & Resources (MR)

Sourcing of Raw Materials
Construction & Demolition
Waste Management



Indoor Environmental Quality (EQ)

Low-Emitting Materials
Interior Lighting



Exemplary Performance (EP)

Option 1: Innovation

The **U.S. Green Building Council's LEED®** green building program is the world's most widely used and was created as a leadership standard defining best practices for healthy, high-performing green buildings. **Each of our manufactured products contribute to a project's LEED certification.** Lab Crafters has developed clear criteria so that project teams can easily identify how our products, materials, and processes contribute to the above LEED credit categories.

Beyond LEED our lab solutions are part of laboratory facilities that are International WELL Building Institute™ (IBWI) **WELL®** and **Fitwel®** certified. Our solutions are featured in award-winning facilities recognized by the International Institute for Sustainable Laboratories Go Beyond Awards; AIA Sustainability Awards; and USGBC Green Building Showcase.

Our commitment to sustainability goes beyond providing high-performance, adaptable, and eco-friendly lab solutions—it's about **shaping the future of sustainable laboratory design.**

We embed sustainability into every product - minimizing environmental impact, maximizing value, and supporting circular economy.

We prioritize bold, sustainable innovations.

Our patented Air Sentry® high-performance fume hoods consume 50% less energy than traditional models. Our powder coating process is VOC-free and uses a state-of-the-art recovery system to capture and reuse overspray, generating no hazardous waste. We reduce scrap, minimize waste, collect and recycle materials, and minimize packaging, 95% which is recyclable or reuseable. The majority of our materials are inherently non-emitting sources of VOCs. We can also provide worksurfaces that meet UL GREENGUARD Gold certification.

LEED® Certified

A select list of notable LEED Certified facilities featuring Lab Crafters solutions:

Johns Hopkins University UTL Building | **LEED Platinum**

Stony Brook University | Advanced Energy Center | **LEED Platinum**

Flagship Pioneering | 808 Windsor | Somerville, MA | LEED Platinum

Williams College | Hopper Science Center | **LEED Platinum**

Alexandria Real Estate Equities | One Charles Park | Cambridge, MA | LEED Gold

AMGEN | BioMed Realty | The Gateway of Pacific | San Francisco, CA | LEED Gold

Amherst College | New Science Center | **LEED Gold**

Biopharmaceutical Client | San Francisco, CA | LEED Gold, LEED Zero Carbon

Brookhaven National Laboratory | Interdisciplinary Science Building | **LEED Gold**

Brookhaven National Laboratory | Laboratory Office Buildings | **LEED Gold**

Butler University | New Sciences Complex | **LEED Gold**

Carnegie Mellon University | The Sherman and Joyce Bowie Scott Hall | **LEED Gold**

Cleveland Clinic | Robert J. Tomsich Pathology & Lab Medicine Institute | **LEED Gold**

Confidential Pharmaceutical Client | 250 Water Street | Cambridge, MA | LEED Gold

CUNY Advanced Science Research Center for Discovery & Innovation | **LEED Gold**

Flagship Pioneering | One Charles Park | Cambridge, MA | LEED Silver

Flagship Pioneering | 101 South Street | Somerville, MA | LEED Gold

Howard Hughes Medical Institute | Janelia Farms Research Campus | **LEED Gold**

Loyola University | Center for Translational Research and Education | **LEED Gold**

MIT | Building 4 Renovations | **LEED Gold**

Northwestern University | Simpson Querrey Biomedical Research Center | **LEED Gold**

Penn State | Chemical and Biomedical Engineering Building | **LEED Gold**

Purdue University | Agricultural & Biological Engineering Building | LEED Silver

Ragon Institute of Mass General Brigham, MIT, and Harvard | **LEED Gold**

Spark Therapeutics | Philadelphia, PA | LEED Gold

University of Arizona Biomedical Sciences Partnership Building (BSPB) | **LEED Silver**

University of Maryland | Interdisciplinary Life Sciences Building | **LEED Gold**

University of Hawaii | Cancer Research Center | **LEED Gold**

University of Pennsylvania | Stemmler Hall Perelman School of Medicine | **LEED Gold**

University of Rhode Island | Fascitelli Center for Advanced Engineering | **LEED Silver**

Washington University School of Medicine | McKinley Research Building | **LEED Gold**

Woods Hole Oceanographic Institute | George & Wendy David Center | **LEED Gold**



I-FLEX solutions are noted in bold.



Ragon Institute of Mass General Brigham, MIT & Harvard
Payette | Consigli Construction
LEED Gold Certified
Photo Credit: Robert Benson Photography

Crafting Labs for a Better Tomorrow

At Lab Crafters, our dedication to sustainability extends beyond delivering high-performance, adaptable, and eco-friendly lab solutions—it's about shaping the future of green laboratory design.

As we continue to innovate and collaborate with like-minded partners, we remain steadfast in our mission to help laboratories contribute to a greener, healthier, and more sustainable world. Together, we are crafting laboratories that serve the needs of both people and the planet—today and for generations to come.



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