I-FLEX



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.

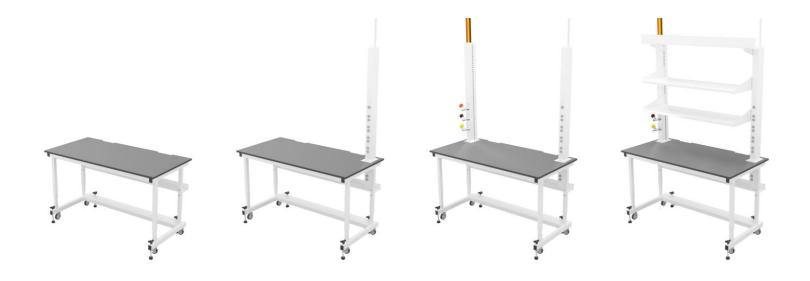
COMMITMENT

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.





Introducing I-FLEX



I-FLEX, our most popular system, is designed and engineered to empower labs for **continuous change**.

Designed as a flexible kit-of-parts, I-FLEX allows for seamless customization and future reconfigurations, enabling laboratories to adopt new research methodologies and technologies without major renovations. Its innovative utility pole system empowers users to configure service delivery to the bench, keeping the laboratory up-to-date and responsive to current needs.





INTRODUCING I-FLEX

I-FLEX is Lab Crafters' premier product, the ultimate in agile, versatile, and durable lab bench solutions.

Engineered to Adapt

Engineered as a pre-manufactured, fully welded frame, it provides a robust foundation for a range of mobile, adaptable components that evolve with the user's needs. Crafted from high-quality materials and rigorously tested for longevity, I-FLEX is built to withstand change.

The Ultimate in Flexibility

This highly agile system features three independent, flexible components—utility poles, a frame, and mobile storage solutions—that can be seamlessly adjusted throughout the product's lifecycle. For example, the customizable utility poles enable simple transitions between electrical and plumbing setups, adaptable from day one and for years to come.

A Lasting Solution

I-FLEX is more than just a product; it's a dynamic, long-term solution designed to evolve with your lab's needs, prioritizing adaptability, longevity, and sustainability.

THE I-FLEX CONCEPT

Redefining Flexible

Invented in 2007, I-FLEX was created with the premise that maximum flexibility can be achieved by rethinking point-of-use utilities as an independently adaptable component of a flexible lab furniture system. Simply put - no matter the quantity of mobile base cabinets or height-adjustable tables, if the point-of-use utilities are fixed, a lab furniture system remains limited in its flexibility.

Seamless Adaptability

I-FLEX takes the above concept even further. Rather than replacing an entire workstation to accommodate utility changes, the system allows for easy swapping of the point-of-use utility pole while keeping the workstation intact. This innovative approach maintains full functionality while enabling seamless adaptability to evolving needs.

I-FLEX is:

Adaptable

Ready to meet ever-changing workflows

Expandable

Builds on your initial investment

Integrative

Ready to accommodate equipment

Reconfigurable

Enables easy & fast changing of utilities









DESIGNED TO SUSTAIN

A Future-Ready Solution

As research demands more collaboration across functions and new disciplines emerge, laboratory spaces must be ready to adapt. I-FLEX is more than just an adaptable laboratory furniture system—it's a sustainably designed solution that ensures no component ever needs to end up in a landfill. Crafted with sustainability in mind, I-FLEX provides the flexibility to accommodate shifting research demands, new equipment, utilities, and workflows. Its modular, reconfigurable design allows labs to stay functional, efficient, and future-ready, eliminating the need for costly and disruptive renovations while minimizing environmental impact.

CASE STUDY

AMGEN

AMGEN's cutting-edge R&D site integrates over 24 functions, combining technology and biotech innovation. The highly flexible lab spaces set new standards in sustainability, from performance to operations. As a LEED® Gold facility, the site aims for TRUE Zero Waste and WELL® Certifications and serves as a pilot for MyGreenLabs, a United Nations recognized certification focused on reducing laboratory environmental impact.

Lab Crafters' I-FLEX system and Air Sentry® fume hoods work together to bolster high-performance goals and to enhance an agile, environmentally conscious lab environment.

BUILT FOR CHANGE

Agile to Evolving Needs

As scientific disciplines advance and new fields of study emerge, laboratory spaces must be ready to evolve. I-FLEX, is more than an adaptable laboratory furniture system. It provides the flexibility needed to accommodate changing research demands, new equipment, new utilities, and new workflows. With its modular and reconfigurable design, I-FLEX ensures that laboratories remain functional, efficient, and future-ready-eliminating the need for costly and disruptive renovations.

CASE STUDY

Flagship Pioneering

Flagship Pioneering invents platforms and builds companies that change the world. At One Charles Park, Flagship has positioned a series of flexible suites that foster a seamless connection between science and business - increasing internal transparency, these spaces create opportunities for spontaneous collaboration, support advancements in the discovery pipeline, and build a robust community of innovators. As companies grow and evolve, their diverse needs demand flexible, adaptable solutions. Lab **Crafters implemented I-FLEX to enhance** Flagship's model for tenant growth and evolution, while enabling the ease of adjustability in each tenant lab to meet specific requirements.







- **Islands:** This configuration offers short islands for teaching lab instruction in groups of 6, with views to a central demonstration zone for the instructor.
- **Rows:** This configuration offers long rows of continuous benching for teaching lab instruction, structuring views to a fume hood prep area beyond.



At the HHMI Scientific Education Alliance Lab, I-FLEX supports rapid reconfigurations - this one in about 15 minutes.¹

Undergraduate teaching laboratories are increasingly being designed as versatile, **multi-modal spaces**. These spaces often require hybrid instructional modalities, seamlessly integrating seminar-style discussions with hands-on lab activities. Instructional spaces used by different disciplines now pivot from one setup to another to accommodate the next class. **I-FLEX facilitates these rapid transformations, during the short timeframe of a class change.**

The University of Maryland | HHMI SEA Lab HDR | Whiting Turner Photo Credits: HDR

Visualizing Solutions



Through real-time visualization, Lab Crafters can help you tailor an optimized I-FLEX solution to **future-ready** your lab.

Lab Crafters has developed a library of I-FLEX components, accessories, and common laboratory equipment to help our customers quickly visualize I-FLEX solutions in a planned laboratory environment. The benefit is a real time, collaborative exploration of alternative configurations and options that tailor an I-FLEX solution to your plan and specific lab needs.





IMAGINING THE POSSIBILITIES

Visualizing in Real Time

Helping customers visualize their laboratory furniture solutions in real time is a crucial part of the planning process, enabling them to make informed decisions quickly and efficiently. By offering rapid visualization of lab layouts, we empower customers to see exactly how their laboratory will look and function before finalizing their choices. This approach not only helps clarify design options but also allows for immediate comparison of different configurations, ensuring the best set of solutions for your lab.

Our Planning Process

We can start with an early sketch or a fully documented plan of your lab. Working together, we populate your plan with I-FLEX solutions, and have a conversation around desired functionality, uses, equipment, storage needs, access and the processes in your lab. Based on these conversations, we can propose a set of alternative I-FLEX configurations, components, and other lab solutions to explore together in real-time. Our 3D approach enables you to see your plan with our lab solutions simultaneously, as we explore the possibilities together.

IMAGINING THE POSSIBILITIES

Optimizing Your Lab

Whether determining the optimal bench placement, assessing workflow efficiency, or evaluating storage options, real-time visualization offers our customers a clear understanding of their space so they can confidently move forward with their project. Through visualization, we can collaboratively make adjustments in real-time—such as resizing benches, adding or swapping components, or exploring alternative configurations.

A Seamless Lab Design Experience

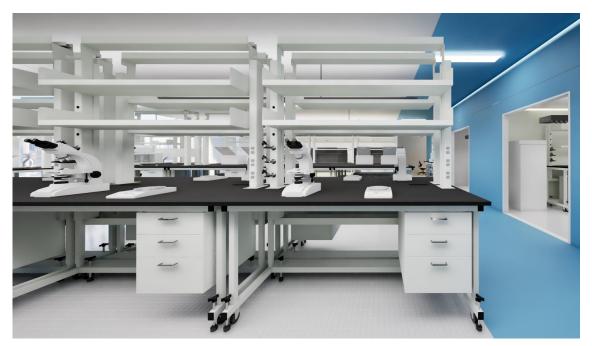
Our advanced three-dimensional visualization tools take this process a step further by providing a comprehensive library of lab furniture, fume hoods, base cabinets, and essential equipment. This allows customers to see their lab come to life from multiple perspectives, including plan, elevation, axonometric, with rendered views. By offering dynamic visualization, we eliminate uncertainty, streamline decision-making, and provide a seamless design experience that ensures the final laboratory setup is both functional and visually optimized.

Resource Library

For architects and lab planners, I-FLEX Revit Families are available upon request, and through the Lab Crafter's website: <u>Resource Library</u>.













Our visualizations of lab solutions are set within a designed, virtual environment – **supporting lab design decisions**, such as color.

Lab Crafters collaborates directly with architects and lab planners to bring I-FLEX solutions to life through immersive, design-focused visualization tools. Our process enables teams to explore color palettes, material finishes, and spatial layouts in real time—ensuring lab environments are not only functional but inspiring. By integrating our lab solutions into a cohesive visual narrative, we help A/E teams and clients align design intent with practical lab solutions from the start.

Imagine the Possibilities

I-FLEX adapts as a scaffold for large equipment to open workstations - yielding versatile, ergonomic solutions that maximize utilization and work processes in the lab.



Scaffolding Equipment in the Open Lab



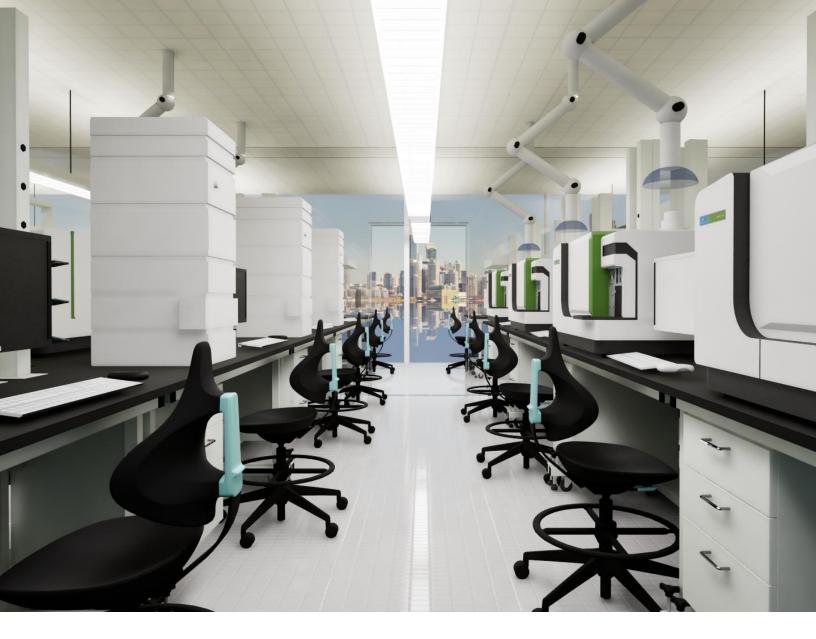
Providing an Open Bench Solution



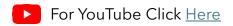
Configuring the Open Lab for Adaptations



Supporting Alcoves for Special Uses





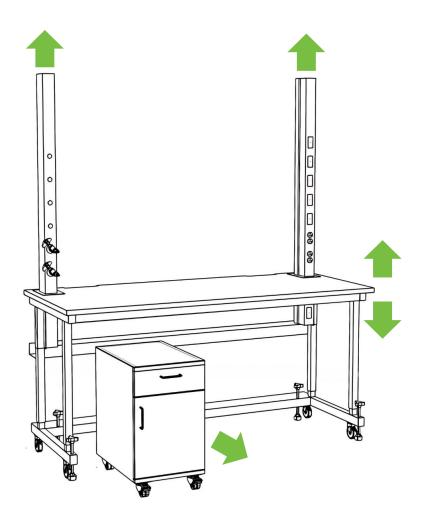


Explore Lab Crafters' virtual lab from your mobile device – just scan the QR code and **enjoy a virtual tour** at your own pace.

Step into the future of lab design with Lab Crafters - where immersive visualization meets unmatched versatile solutions - to bring your lab vision to life.



I-FLEX Features



I-FLEX's durable frame is a scaffold for **3 independently flexible components**: a utility pole, a worksurface, and storage.

Limitless Flexibility

A flexible laboratory furniture system consists of three key components: point-of-use utilities, the worksurface, and storage. In a fixed lab casework system, these elements are interconnected—changing one requires modifying the others. In contrast, I-FLEX separates each of these components to complement but work independently from each other for total flexibility.



Spark Therapeutics Jacobs | STO Building Group LEED Gold Certified Photo Credit: Jeffery Totaro

The I-FLEX "Kit-of-Parts"

Each I-FLEX component contributes to a kit-of-parts, adaptable furniture system. Each component is sustainably crafted for interoperable usage over time.



Frames

I-FLEX fully-welded frames are available in fixed height or adjustable through telescoping legs or an optional electric push button. Frames include heavy duty casters for mobility and leveling feet with grip handles.



Shelving

Designed to span between slotted utility poles for structure, I-FLEX shelving is height adjustable and completely removeable. Shelving is powder-coated (No-VOC) to match the I-FLEX frame.



Utility Poles

I-FLEX utility poles are designed to include either plumbing services, power services, data services or they can be blank. Blank poles can be provided with capped holes for future electrical, data or plumbing fittings.



Wire Management

I-FLEX features an upper and lower wire management tray, organizing electrical and plumbing service conduits between utility pole distribution and ceiling panel services above.



Base Cabinets

I-FLEX base cabinets are available as suspended cabinets, mobile cabinets, mobile cabinets, mobile catts, and customized open cabinets (featuring open shelving). Base cabinets can include combinations of doors and drawers.



Work Surfaces

I-FLEX can receive virtually any worksurface. We commonly provide Stainless Steel, Epoxy, and Phenolic worksurfaces. Durcon surfaces are GreenGuard certified with a light reflectance value (LRV) of 45 or greater.

I-FLEX Dashboard

Lab Crafters has created the I-FLEX Dashboard, a visual guide offering a range of alternative lab solutions derived from a base kit-of-parts.



Undercounter Mobile Cabinets

This mobile solution can be easily rolled away for other undercounter needs.



Suspended Cabinet Storage

This solution is hung from the I-FLEX frame, without taking up floor space below.



Undercounter Open Storage

This open solution provides open shelf storage below the bench for ready access.



No Undercounter Base Storage

This configuration lends itself to undercounter equipment needs.



Tables (Frame Only)

This configuration provides clear space above a continuous worksurface.



One Utility Pole

This solution provides the option for "left or right handed" utility services.



Open Mobile Cart Solution

The LabNode open mobile cart storage solution is featured below the bench.



Add Horizonal Raceway

This solution integrates a horizontal raceway for flexible power locations along the benchtop.



Double-Tier Adjustable Shelving

This solution provides adjustable and removeable shelving above the bench.



Add Lab Accessories

This solution integrates monitor arms, keyboard trays, and/or task chairs as optional lab accessories.



Add Wire Management Tray

This solution provides a cable management tray above the shelving.



Add Utility Outpost

This solution provides a companion utility outpost to serve floor-mounted equipment at the bench.





I-FLEX's **quick-disconnect** services delivery supports the ease of reconfiguration and future adaptation.

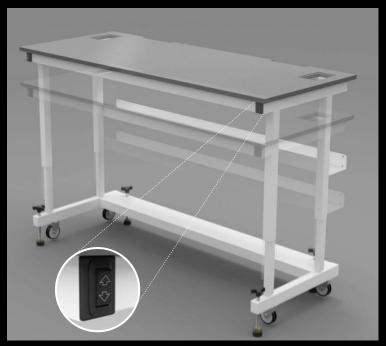
I-FLEX's agile and interchangeable utility poles are serviced from quick disconnects to ceiling service panels integrating the lab bench into the building's infrastructure. Ceiling service panels can be customized to meet specific requirements, delivering essential utilities directly to lab benches through quick-connect hoses and utility poles. The quick-disconnect design ensures that services can be connected or disconnected swiftly and safely, enhancing both functionality and safety in dynamic laboratory environments.

Guardian Drug Co

KSD Architects | Bancroft Construction Photo Credit: KSD Architects

I-FLEX Optional Features

I-FLEX enhances user comfort and optimizes the lab bench workflows through height adjustable worksurfaces, task lighting, reagent racks, and adjustable raceways.



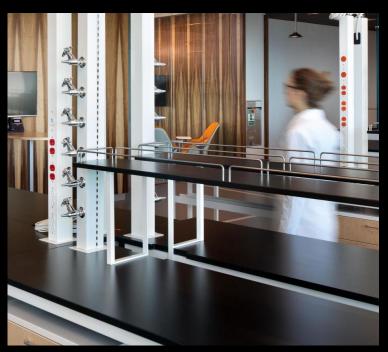
Effortless Adjustability

As laboratories evolve, prioritizing ergonomics is essential to support user comfort and productivity. Our height-adjustable laboratory benches optimize workflow efficiency. Unlike traditional lab casework that requires manual adjustments or contractor intervention, I-FLEX allows seamless tabletop height adjustments at the push of a button–saving time and simplifying setup.



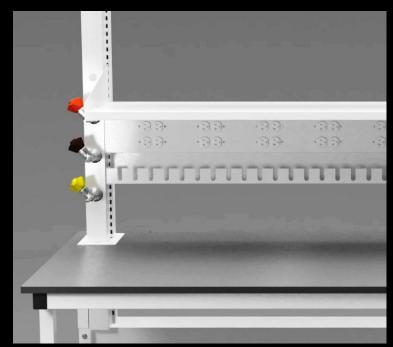
LED Task Lighting

Improved light levels reduce eye strain and fatigue while enhancing user comfort and sustained productivity during detailed tasks. I-FLEX integrates energy-efficient LED task lighting beneath adjustable shelving to deliver optimal illumination directly at the worksurface. This sustainable solution significantly brightens the lab bench, creating a more focused environment where clarity and precision are essential.



Reagent Rack/Shelf

A key challenge in any lab is balancing easy access to frequently used items with the need to avoid benchtop clutter. Elevating items off the bench can protect from spills but also improve ergonomics by keeping essentials within comfortable reach. Lab Crafters customizes reagent rack solutions for I-FLEX that organize easily accessible storage for frequently used materials, helping to clear the work surface and enhance overall efficiency.



Integrated Electrical Raceway

Laboratories often struggle to provide sufficient electrical access for evolving equipment demands and daily tasks, especially in high-power environments. To address this, Lab Crafters offers an integrated electrical raceway system that delivers immediate, organized access to power along the lab bench—supporting intensive power needs and enabling users to adapt quickly to changing workflows.

I-FLEX Accessories

I-FLEX enhances productivity and well-being with integrated workplace accessories like monitor arms and keyboard trays, versatile mobile carts and dynamic seating solutions.



Ergonomic Monitor Arms

Every inch of worksurface in a lab is precious, and monitors often consume valuable space that could be better used for equipment and critical workflows. Lab Crafters seamlessly integrates intuitive AV support solutions in the lab environment. Ergonomic monitor arms mount directly to I-FLEX utility poles, freeing up benchtop space while enhancing user comfort and maximizing utility in the lab.



Keyboard Trays

The lack of functional ergonomics at workstations in lab environments can lead to poor posture, increasing the risk of strain during prolonged computer use. Lab Crafters can easily integrate keyboard trays that mount discreetly beneath the worksurface, that can slide away when not in use. These smart accessories bring essential ergonomic support to the lab, improving comfort, and productivity.



LabNode Mobile Cart

Lab managers and users alike often prefer storage solutions that keep items visible, easily inventoried, and readily accessible. LabNode brings lean organization, safety, and flexibility together in one mobile cart solution. Labeled bins and visual supply management keep tools and materials orderly and within reach, while ergonomic design, locking casters, and smooth mobility ensure safe, effortless transport.



Dynamic Lab Seating

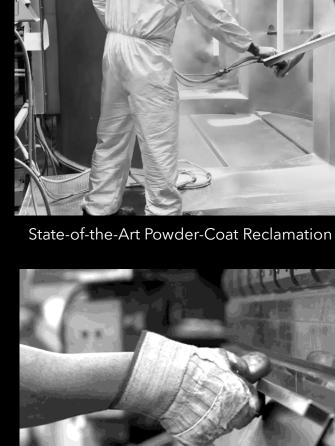
Labs and technical environments are always in motion, so seating solutions must be simple, clean, and mobile. Lab Crafters offers seating solutions that deliver dynamic support, exceptional freedom of movement, enhanced comfort, and superior durability. The seating solutions we offer are designed for responsive support and finished with high-performance materials that resist harsh chemicals.

Making Labs Work

Each of our manufactured products are crafted with precision and care by skilled professionals who understand the core tenets of durability, flexibility, and performance.



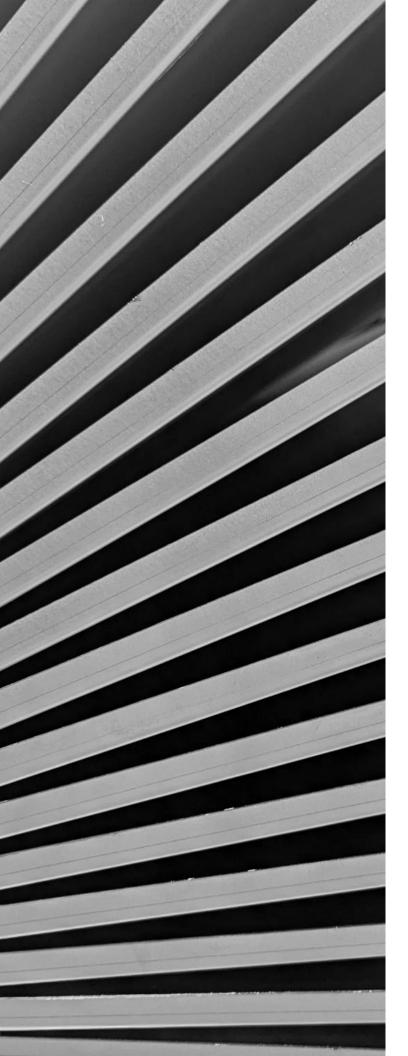
Crafting with Precision & Care



Crafting for Durability, Longevity & Quality



Manufacturing for a Circular Economy



I-FLEX CONSTRUCTION

Performance Standards

The I-FLEX adaptable furniture system is designed to performance-based standards for durability, safety, and structural integrity. I-FLEX complies with SEFA 8 and UL 962.

Steel Construction

I-FLEX is constructed from robotically welded steel tubular construction that supports 100 lbs. per linear foot evenly distributed. Lab Crafters also offers heavy-duty construction for high weight capacity, tested to exceed SEFA 10, Category 4 (1200#) Work Surface Strength.

Faster Manufacturing & Installation

I-FLEX is engineered for speed and efficiency—it can be manufactured up to 60% faster in our factory and installed up to 15% faster than traditional flexible systems.

Standards & Customization

I-FLEX is manufactured in standard measurements and customized within 6-inch increments. I-FLEX is also available in metric dimensions and hardware to support our global customers.

Widths

36", 42", 48", 54", 60", 66", 72", 78", 84", 90", 96"

Depths

24", 30", 36"

Heights

30", 33", 36" (Adjustable)

Utility Outpost



The Utility Outpost functions as the ultimate extension cord for areas that are heavily populated with equipment.

The Utility Outpost is a standalone, plug-and-play utility hub designed to adapt to any lab setup—from open automation floors to equipment-heavy lab support zones. It offers lab users a mobile hub of self-contained power and plumbing with quick ceiling disconnects to a service panel above. It can be easily positioned adjacent to the bench or next to the floor-mounted equipment it serves.

Seamless Equipment Integration

Lab Crafters Utility Outpost can be integrated at the open lab bench to conveniently accommodate floor-mounted equipment immediately adjacent to bench-processes.

A Novel Off-Bench Solution

With the Utility Outpost, floor-mounted equipment can be introduced at the bench-side to enable a new work process. First, a table can be removed from an I-FLEX island configuration. Second, the Utility Outpost is added to maintain point-of-use utilities. The Utility Outpost connects to a ceiling service panel with quick disconnects, allowing floor-mounted equipment to have its own power/plumbing supply without borrowing from bench needs.







The Utility Outpost seamlessly integrates with I-FLEX tables to accommodate floor-mounted equipment **at the bench-side**.

The rise of automated processes driven by lab equipment has reshaped the way lab spaces are designed. In lieu of traditional aisles of lab benches, equipment often determines the spatial structure of a lab. One effective approach is the "dance-floor" concept, where equipment is staged, with satellite supporting elements like mobile workstations beyond.

Sustainably Crafted



I-FLEX is sustainably designed with the core tenets of durability, stability, flexibility, and mobility in mind.

With I-FLEX, we have sustainably crafted a product that uses significantly less material than traditional fixed lab casework, while incorporating steel with 60%+ recycled content as its core material. Designed for infinite adaptability, every component of I-FLEX is purposefully crafted to evolve with change. Thanks to its backward compatibility, old and new parts seamlessly integrate, ensuring full interoperability and interchangeability.

Confidential Biopharmaceutical Client

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

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 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





2085 Fifth Avenue Ronkonkoma, NY 11779 Phone: 631.471.7755 Fax: 631.471.9161

Visit Our Website: www.lab-crafters.com

Requests for information: sales@lab-crafters.com