

COMPANY OVERVIEW

Delivering Technically Complex Facilities
for the Life Sciences Industry Around the Globe

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Knowledge, Skill & Passion • www.ipsdb.com

OVERVIEW



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Our cornerstones of Knowledge, Skill & Passion fuel our growth and cultivate a collaborative environment that drives our company.



IPS-Integrated Project Services, a Berkshire Hathaway company, was founded in 1989 as a unique firm focused on aligning services with our client’s business drivers and delivering projects on an integrated design-build platform. It was innovative and bold at that time. Since then, we have developed, executed, and advanced a number of strategies to reach our global status today.

IPS is one of the fastest-growing companies in the AEC industry, with a global reach that spans five continents. Our cornerstones of Knowledge, Skill & Passion fuel our growth and cultivate a collaborative environment that drives our company.

We are proud to be a global provider of technical consulting, architecture, engineering, project controls, construction management, and CGMP compliance services for technically complex pharmaceutical development and manufacturing facilities worldwide. Our world-class expertise, knowledge, and understanding of industry trends and technologies place importance on time-to-market, plant flexibility, and cost control to avoid costly project delays and minimize risk while building, designing, constructing, and qualifying CGMP regulated facilities.



Founded in 1989



50+ Offices in 17 Countries and Growing



Biotech and Pharma Industry Focused



Projects Range from \$1,000 to \$1.5B



Over 3,500 Experienced Professionals



Internationally known SMEs



Best-in-class Technical Expertise



Many Employees Come from Client Side



Global Regulatory Knowledge



Trained 650+ FDA Inspectors



Berkshire Hathaway Company



“A” Safety Conformance Rating



Incident and Injury-free Safety Culture

CORE INDUSTRIES

- Cell & Gene Therapies
- Pharmaceutical
- Biotechnology & Biomanufacturing
- Animal Health
- Medical Device & Diagnostics
- Consumer Goods
- Science & Technology
- Advanced Therapy Medicinal Products



HISTORY

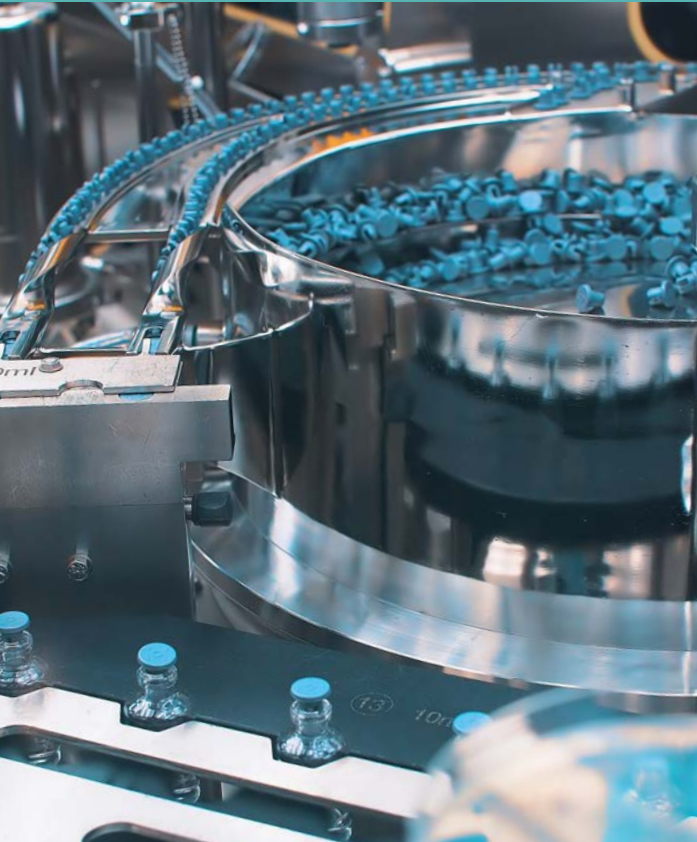
Throughout IPS' history, there have been many activities that have positively impacted the company. In 2007, IPS moved from an execution-based company to a knowledge-based company and attracted several subject matter experts (SMEs) that not only design and construct facilities but also solve a client's problem. Our extensive roster of industry-recognized SMEs – a large number of whom have owner-side operating experience – possess deep global regulatory and best-in-class technical expertise.

In 2023, IPS appointed Jim Stephanou, a well-recognized and accomplished leader in the Pharmaceutical Industry with over thirty years of experience in manufacturing operations and engineering, as CEO to lead the company into its next phase of growth. Dave Goswami became the Chairman and CEO of IPS Enterprise and continues to advance his vision and pave the way for future success for IPS Enterprise companies.

Through the acquisition by Berkshire Hathaway in 2022, IPS proudly became part of the multinational conglomerate's family of companies, and today, IPS is at the forefront of new technologies and innovations in the industry. Clients reach out to us because of our recognizable brand of knowledge leadership. As we continue to grow with the support of Berkshire Hathaway, we do not lose sight of what has brought us here today: listening to the needs and challenges of our clients and providing integrated project and business solutions that help them create and manufacture life-impacting products worldwide.

Internationally Recognized Technical Expertise

- Advanced Aseptic Filling / Barrier Technologies
- API / Small Molecule Manufacturing
- Oral Solid Dosage (OSD)
- Biomanufacturing, Cell & Gene Therapies, Vaccines
- Potent Compounds and Containment
- Scale-up / Tech Transfer
- Critical Utilities / Utility Design
- Laboratories / Vivariums
- Risk-based Commissioning & Qualification
- Serialization & Traceability
- i CON™ / Flexible, Lean & Turnkey Modular
- Construction / Integrated Project Delivery



SERVICES



Technical Consulting

- Inceptioneering (Business Case Consulting)
- Real Estate Search Support & Test Fitting
- CGMP Compliance Consulting
- QMS Development
- CFD Modeling
- Strategic Master Planning
- Sustainability Planning & LEED Certification
- Lean Planning
- Calibration Program Management



Architecture / Engineering

- Technology
- Process Engineering
- Process Architecture
- Automation
- Architectural
- Mechanical, Electrical, Plumbing
- Building Services
- Fire Protection / Life Safety
- Equipment
- Computer Process Simulation & Modeling
- Environmental
- BIM Technology / CAD
- 3D Simulation
- Conceptual Design / Engineering
- Detailed Engineering
- Energy / Sustainability / Conservation Management

Project Controls

- Cost Engineering
- Planning / CPM Scheduling
- Estimating
- Accounting Cost Analysis
- Earned Value Manpower Management
- Change Management
- Risk Management Assessment
- Document Controls
- Site Operational Support
- Software Integration
- Procurement
- PMO - Program Management
- Engineering Support
- Project Management
- Project Engineering
- Construction Support
- Superintendents
- Project Controls
- Clerical

Safety is a core value at IPS and we incorporate it into all aspects of our business culture. We protect our most valuable assets, the employees, along with our clients, subcontractors, and vendor partners from injury and illness through our regimented and proven safety trainings, policies, and procedures.



Full Life Cycle CGMP Compliance / Commissioning, Qualification & Validation

- CGMP Facility Audits (Domestic / Int'l)
- CGMP Design Reviews / Design Qualification
- FDA 483 / WL / Consent Decree Remediation
- CQV Strategy / Validation Master Planning
- Facility, Equipment and System Qualification (IQ / OQ/PQ)
- Risk-based Qualification (ASTM E2500, ISPE BG5)
- CQV Execution
- CQV Project Management
- Project Information Management
- Specifications (URS / FRS / DDS)
- Commissioning Documents (Pre-Functional / Functional Checklists)
- Protocols / Test Plans / Test Scripts
- FAT / SAT Support
- Summary Reports
- Turnover Package Management
- Environmental Monitoring PQ
- Validation
- Process
- Cleaning / Sterilization
- Computer Systems / Data Integrity
- Lab Equipment
- Quality Systems
- Policies
- Risk Assessments
- Standard Operation Procedures (SOPs)
- CGMP & CQV Training



IPS is the recognized leader of EPCMV services. These services are provided on a stand-alone basis, as a fully integrated project delivery, or as a combination of the two models.

Construction Management

- Safety, Security & Environmental Compliance
- EPCMV
- Design / Build
- Program Management
- Construction Management
- IPS Procurement Services & Strategies
- Facility / Process Equipment Expediting
- Project Controls
- Lean Construction Delivery
- Target Value Costing
- Preconstruction, Project Planning and Site Logistics
- Cost Management
- Estimating
- Scheduling, Pull & Takt Planning
- Open Book GMP
- Risk Analysis
- Sustainability / LEED
- Turnover

Technical Staffing

- Construction Managers / Field Engineers
- Project Managers
- Validation / Commissioning Engineers
- Project Controls Professionals
- Quality Systems Professionals
- Owners Representatives



SUBJECT MATTER EXPERTS & INNOVATIONS



Our subject matter experts include technologists, process engineers, architects, engineers, project management specialists, regulatory and compliance professionals, and business/operations consultants. Each possesses industry operating experience and understands underlying technologies, industry trends, construction and EHS practices, regulatory environment, and manufacturing processes to identify opportunities to streamline production and maximize efficiency.

- IPS has nearly 100 SMEs and technical experts across different specialties, such as cell and gene therapies, vaccine manufacturing, aseptic fill/finish, OSD, containment, continuous process, technology transfer, and sustainability
- IPS trains global regulatory agencies on new technology and advancements in the industry
- IPS contributes to ISPE® industry guidelines and educates the community

IPS Innovations:

- i CON™ Turnkey Modular Facility Platform Solution
- Aseptic Facility of the Future
- Inceptioneering™
- iLAB™
- ModulusEPCMV™
- CarTon™

ISPE FACILITY OF THE YEAR RECOGNITIONS



2023

WuXi Biologics

**Large-Scale Single-Use Manufacturing Facility
Mullagharlin, Dundalk, Ireland**

This facility is one of the world's largest contract-manufacturing single-use bioreactor sites. IPS used a "design-assist model," making it one of the first in Ireland delivered using this innovative methodology.

2023

Nexus Pharmaceuticals

**New Aseptic Fill/Finish Facility - Project Tomorrow
Pleasant Prairie, Wisconsin**

IPS designed the facility using design concepts that provide additional efficiency not seen before in pharmaceutical manufacturing. This multi-use facility features both the application of state-of-the-art process technologies and an aesthetically-focused facility concept.

2023

WuXi AppTec

**Phase One R400 Facility
Philadelphia, PA, USA**

IPS completed construction management services for the first phase of a new laboratory fit-out to bolster the company's need to produce operational labs to provide medical testing of new drugs to the market.



2022

Iovance Biotherapeutics

**Clinical & Commercial Facility
Philadelphia, PA, USA**

This facility develops and commercializes novel cancer immunotherapies based on tumor infiltrating lymphocytes. Our experts qualified and validated the equipment and facility per the new ISPE C&Q Baseline Guide.

2021

Raymond G. Perelman Center for Cellular and Molecular Therapeutics

**Clinical Vector Core, Research Lab, and Vivarium Lab CQV Services
Philadelphia, PA, USA**

IPS provided quick and cost-effective commissioning and qualification services for this cell and gene facility at the Children's Hospital of Philadelphia, including over 120 pieces of equipment.

2021

Locus Biosciences

**CGMP CRISPR Facility CQV Services
Research Triangle Park, NC, USA**

IPS provided commissioning, qualification, and validation services, including program development, documentation deliverables, protocols, and verified architectural finishes for this facility that combines the safe delivery vessel of bacteriophage with the antibacterial power of CRISPR-Cas3 to create an innovative antibacterial platform.

ISPE FOYA RECOGNITIONS



2020

United Therapeutics

Dinutuximab-Dedicated Oncology Medical and Analytical Laboratory (DDOMAL) *Silver Spring, MD, USA*

This monoclonal antibody facility overcame the challenges of its urban site location, passing zoning legislation, building and maintaining community relationships, and the atypical cylindrical shape.

2020

Sanofi

Digitally Enabled Integrated Continuous Biomanufacturing Facility *Framingham, MA, USA*

The project is a highly flexible modular facility that builds on widespread disposable technology to provide a platform to produce current products and, ultimately, a wide range of product modalities.

2020

Janssen Pharmaceuticals and Legend Biotech

CAR-T Clinical Manufacturing Facility *Somerset, NJ, USA*

Retrofit of 38,000sf within an existing open shell space. IPS expedited the GMP manufacturing facility for early-clinical trials with i CON™ to deliver off-site constructed modular environments (PODs) and executed an Inceptioneering™ study.

2017

Cook Pharmica

Flexible Filling Line *Bloomington, IN, USA*

This complex manufacturing upgrade was executed within an existing operation to complement its existing syringe and vial lines with first-of-its-kind flexible filling technology. This facility was recognized for its novel approach to combine three filling lines into one under barrier isolation in a single filling suite.

2015

Pharmalucence

EPCMV New Aseptic Filling Facility *Billerica, MA, USA*

This facility received industry recognition for the execution and entrepreneurial spirit demonstrated by the construction of the new aseptic filling facility by the consolidation of generic and contract manufacturing operations into a single, state-of-the-art facility.

2012

Eisai

Knowledge Centre *Vizag, AP, India*

The facility was recognized for designing and building a Greenfield, state-of-the-art manufacturing and process research complex.

2011

Merck

Global Clinical Supplies Manufacturing, Packaging and Warehouse Expansion *Summit, NJ, USA*

A three-phased hybrid-build design construction approach was undertaken to consolidate global clinical supplies operations into a single, state-of-the-art clinical manufacturing, packaging, and distribution facility.

2010

Biogen Idec

LSM Facility Upgrade, Phase II *Research Triangle Park, NC, USA*

The project scope included the renovation and upgrade of a 250,000sf biological bulk manufacturing facility. This facility received industry recognition for its exceptional design, innovative modular construction methods, and safety record.

2008

BMS

Clinical Supplies Manufacturing and Drug Product Technology Expansion *New Brunswick, NJ, USA*

IPS brought early and late phase CGMP clinical manufacturing and development scale-up areas together within a single facility, allowing BMS to develop and deliver increased compliance, productivity, and technical innovation.

INDUSTRY RANKINGS

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IPS is an award winning, global leader in the industry. Our company has been recognized by numerous industry trade groups and publications for growth and innovation, and our work has been honored for project execution, operational excellence, and equipment innovation.

ENR Engineering News-Record

ENR Rankings

- #2 in Pharmaceuticals List, Design Sourcebook
- #2 in Pharmaceuticals, Construction Sourcebook
- #2 in Manufacturing and Industrial, Green Design Firms and Contractors
- Top 100 Design-Build Firms
- Top 225 International Design Firms
- Top 500 Design Firms in the US
 - Top 20 Industrial Process/Petroleum
 - Top 50 Designers in International Markets
- Top 400 Contractors
 - Top 20 - Industrial
 - Top 50 Contractors Working Abroad
- Top 100 Construction Management-for-Fee
- Top 100 Construction Management-at-Risk Global Sourcebook

- Top International Design Firms & Contractors
 - Industrial Process List
 - Pharmaceuticals List
 - Chemicals (Non-Petroleum)

Design Sourcebook

- Top 500 US Design Firms in Manufacturing
 - Industrial Process List
 - Chemical Plants List

Construction Sourcebook

- The Top 400 Contractors in Manufacturing
 - Industrial Process List

PHILADELPHIA BUSINESS JOURNAL

- Top 25 Engineering Firms
- Top 25 Architectural Firms
- Top 25 Contractors
- Top 100 Major Employers



ARCHITECTURAL RECORD

- Top 300 Architecture Firms



2022 Zweig Group Hot Firms List

Ranked as one of the 100 fastest-growing architecture, engineering, planning, and environmental consulting firms in the United States & Canada that have outperformed the economy and competitors to become leaders in our field.

BUILDING DESIGN + CONSTRUCTION

- Top 35 Engineering and Architecture Firms
- Top 70 Construction Management Firms
- Top 115 Contractor Management Firms
- Top 110 Reconstruction Engineering Firms
- Top 110 Reconstruction Construction Firms

CONSULTING - SPECIFYING engineer

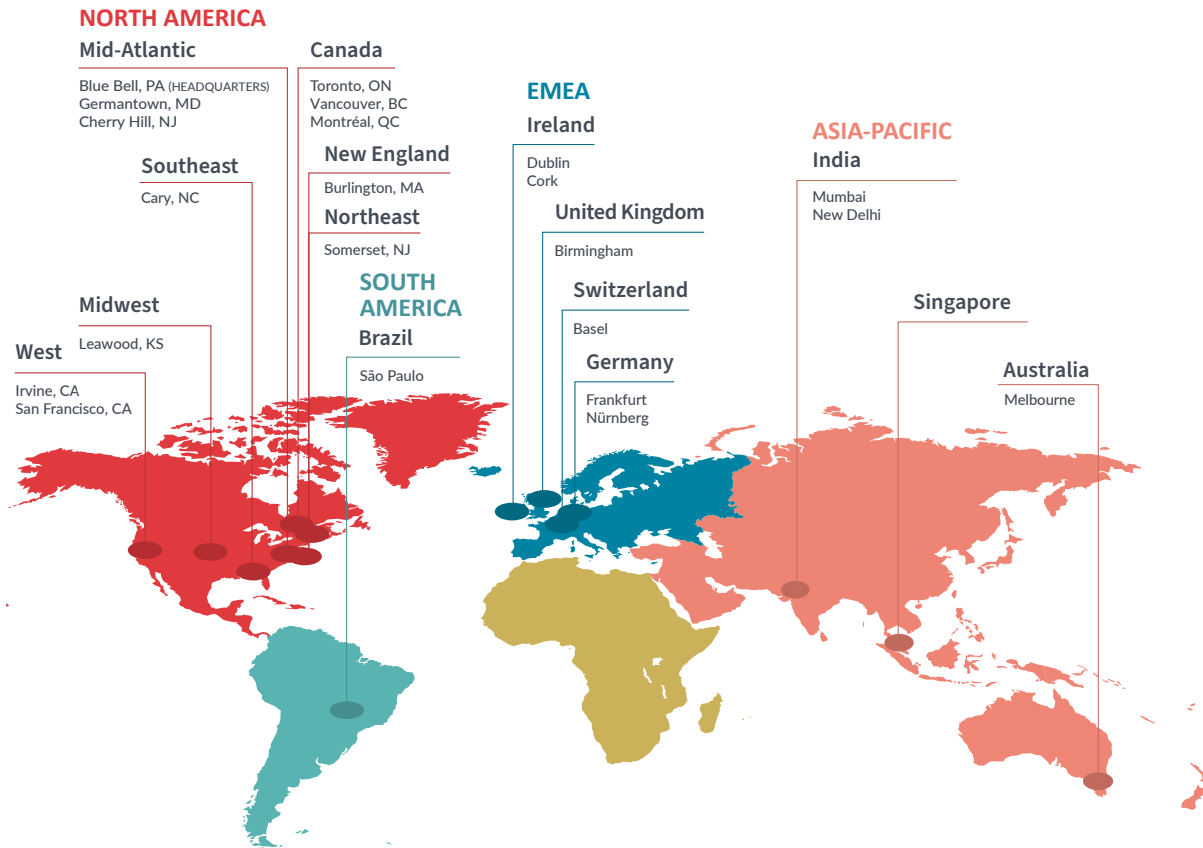
- Top 300 Commissioning Giants
- Top 300 MEP & FP Giants



2022 Zweig Group Best Firms to Work For Award

The Best Firms to Work For award recognizes the AEC firms in the US and Canada based on their workplace practices, employee benefits, employee retention rates, and much more. IPS ranked as #2 in the Design/Build category.

IPS LOCATIONS



Pennsylvania

Blue Bell (Headquarters)
+1 610.828.3656

California

Irvine
+1 949.679.4682

San Francisco
+1 415.748.8753

Kansas

Leawood
+1 913.345.9084

Maryland

Germantown
+1 240.839.3620

Massachusetts

Burlington
+1 978.954.5450

New Jersey

Somerset
+1 732.748.1990

Cherry Hill
+1 856.395.0400

North Carolina

Cary
+1 919.336.9644

Canada

Toronto, ON
Vancouver, BC
Montreal, QC
+1 647.264.8381

Brazil

São Paulo
+55 11 3157 2727

Germany

Frankfurt
Nürnberg
+49 172 5771827

Ireland

Dublin
Cork
+353 1 4854246

Switzerland

Basel
+41 61 205 09 90

United Kingdom

Birmingham
Manchester
+44 121 289 3471

Australia

Sydney
+61 282 789 500

Singapore

+65 6662 9370

India

Mumbai
+91 022 6720 9717

New Delhi
+91 011 2577 7806

The locations listed herein are for IPS offices only; however, with the newest acquisition of Linesight, IPS has over 3,500 professionals in 50+ offices across 17 countries in the Americas, Europe, Asia Pacific, Southeast Asia, Australia, and the Middle East. Linesight specializes in cost, schedule, risk, program, and project management services in various market sectors, including data centers, life sciences, and high-tech industrial. With Linesight, IPS has become one of the AEC industry's fastest-growing organizations. www.linesight.com