



Lilly Manufacturing // Internship

OUR PURPOSE

Lilly unites caring with discovery to create medicines that make life better for people around the world.

OVERVIEW

As a Manufacturing and Quality Science intern, your role will be essential in ensuring the high-quality production of life-changing medicine and devices for patients.

OUR 12-WEEK INTERNSHIP IS DESIGNED TO:

- » Provide a practical, real-life solution to a manufacturing business-related technical project
- » Actively run a technical improvement agenda to drive process improvement
- » Monitor and appropriately react to established, statistically-based metrics in real-time to assess process variability and capability
- » Work within cross-functional teams to implement TSMS or Quality objectives and deliver on business plan and quality objectives



TECH. SERVICES/
MFG. SCIENCE



QUALITY
ASSURANCE



QUALITY
CONTROL



ACTIVE
PHARMACEUTICAL
INGREDIENTS



DRUG
PRODUCT



DRUG
DEVICES

FUNCTIONAL AREAS

- » **Quality Assurance:** Develops and audit systems to ensure quality of medicine is achieved every time. Expert on production science and compliance to solve manufacturing challenges and support technological improvements.
- » **Quality Control:** Performs critical analytical testing to confirm consistent product quality. Evaluates and Investigates testing results, as well as, develops expertise to improve testing methods.
- » **Technical Services/Manufacturing Science:** Oversees and develops scientific knowledge of the processes for making medicine. Analyzes data and performs routine data monitoring to lead process improvements and identify trends.

BUSINESS AREAS

- » **Fermentation/Purification** (Indianapolis, IN & Branchburg, NJ)
 - Active Pharmaceutical Ingredient – Manufactures raw materials and chemical processing to produce insulin and oncology medicines.
- » **Parenteral Dosage Forms** (Indianapolis, IN)
 - Parenteral Manufacturing – Filters and aseptically fills API into a sterile container (vial, cartridge and syringe) for the purpose of injection.
- » **Device Manufacturing** (Indianapolis, IN)
 - Device Assembly & Packaging – Assembles aseptically filled cartridges and syringes into devices by machine prior and then labeling and packaging into the finished cartons with literature.
- » **Packaging** (Indianapolis, IN)
 - Dry Packaging – Fills bottles/blister packs with tablets and capsules and packages into the finished cartons with literature.

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QUALITIES WE'RE LOOKING FOR

- » Deliver through Capability: Knowing how to make medicine; consistently delivering results; developing the skills and knowledge to make medicine
- » Innovate with Curiosity: A deep interest in the technical and business aspects of making medicine; enthusiasm, energy, urgency; treating each event as an opportunity to learn
- » Include through strong character: Demanding excellence in ones' self and others; integrate and work cross functionally effectively; strong work ethic; respect for and appreciation of others; displaying integrity in words and actions
- » Accelerate with Courage: Speaking up, providing input and ideas, leading boldly; demonstrating risk taking with the objective of improving manufacturing; becoming masters of transformation rather than victims of change

TECHNICAL SKILLS

- » Data Analysis/Data Mining – ability to pull and analyze data and graphs to identify trends and outliers
- » Problem Solving – ability to combine data, process functionality, etc. to understand mechanical, equipment or software limitations and improve the system
- » Project Management – ability to understand the process, make decisions on how best to improve a system and follow procedures to implement project safely, cost effectively, and timely.

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Lilly Information and Digital Solutions (IDS) // Internship Program

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INTERN BENEFITS

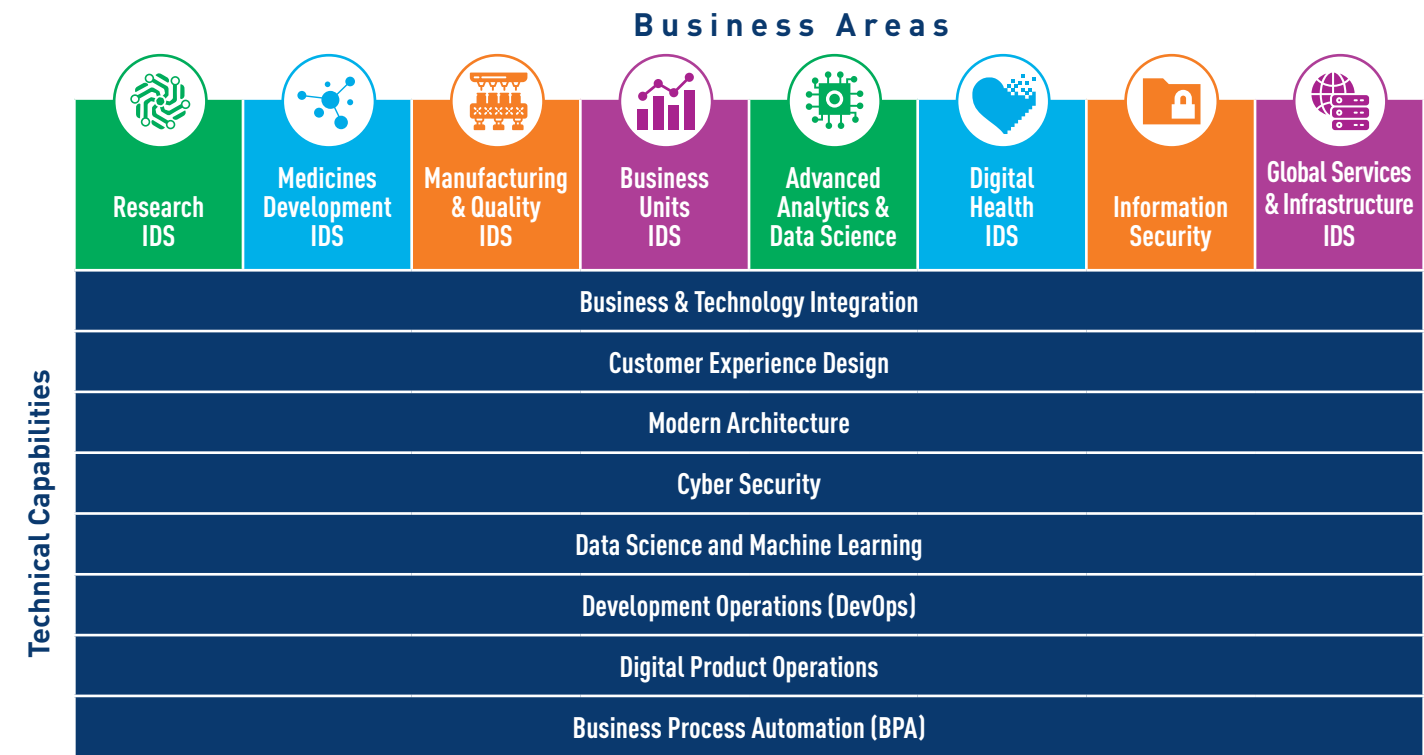
- » Available for undergrad
- » 10-12 Weeks
- » Highly competitive salaries
- » Exciting and innovative projects
- » Housing provided and subsidized
- » Fun, social and networking events

WHY WORK AT LILLY?

- » We operate in a **collaborative** setting with supportive supervisors and colleagues.
- » We leverage projects that impact Lilly’s business of **improving the lives** of patients.
- » We use technology to solve the world’s most **challenging problems**.

WHAT TYPE OF WORK CAN I DO AS AN INTERN AT LILLY?









At Lilly, we offer many roles that utilize various technical capabilities across a wide range of business areas. Based upon personal interest, prior skills and area demand you will have the chance to work in key business functions using many of the technologies outlined below (for more details on these areas see reverse).



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BUSINESS AREAS AND TECHNICAL CAPABILITIES

Business Areas at Lilly

 Research IDS Unites technology with science to accelerate research discovery and deliver therapeutic innovations.	 Medicines Development IDS Powers development to make molecules into medicines that are best and first for patients.	 Manufacturing & Quality IDS Enables the making of medicine and products via technology.	 Business Units IDS Delivers leadership and solutions, enabling customers seamless access to information and our medicines globally.
 Advanced Analytics & Data Science Transforms our business by delivering unprecedented insights and solutions for our patients.	 Digital Health IDS Delivers new consumer health solutions by leveraging digital technology to improve patients' lives with Lilly medicines.	 Information Security Creates an environment where innovation, collaboration and security functions in harmony to make life-changing medicines.	 Global Services & Infrastructure IDS Operates and innovates technology services that enable business transformation and deliver best-in-class workforce experiences.

Technical Capabilities at Lilly

Business & Technology Integration A capability that ensures that IDS is anticipating business needs and leading the identification of the right technical solution that generates expected business outcomes.	Customer Experience Design IDS delivers integrated experiences for all our consumers; comprised of information, technical capabilities, and services that work seamlessly together and in the context of the person using them.
Modern Architecture Modern Architecture defines a network of interconnected components covering applications, services, data and infrastructure.	Cyber Security People-centric, secure, vigilant and resilient, capabilities that protect information, products, and systems enabling Lilly to deliver on it's mission.
Data Science and Machine Learning Lilly IDS plays a lead role in developing, deploying, and using advanced data/algorithm capabilities that empower decision making across all functions.	Development Operations (DevOps) DevOps is a culture, which includes a set of processes, methods and tools for communication, collaboration and integration between development, operations and quality assurance.
Digital Product Operations Lilly products in the future will consist of molecules, devices, apps, algorithms, and data. This capability ensures that the deployment and support of the digital elements of products and services are robust.	Business Process Automation (BPA) Business process automation (BPA) is the application of technology that allows employees in a company to configure computer software or a "robot" to capture and interpret existing applications.

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Lilly Finance // Internship Positions

OUR PURPOSE

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OVERVIEW

Lilly's Finance Internship program is a 10-week program intended for Juniors majoring in Finance, Economics or Accounting who are interested in pursuing a career in corporate Finance. Interns are embedded within a specific Finance team and work on a robust project that fulfills a business need. For one week of the summer, interns work together to compete in a team-based business case competition. Throughout the summer, interns gain exposure to senior leadership and other areas of the business through networking events, social events, and a lunch-and-learn series. By the end of the experience in Indianapolis, interns will have a better understanding of Lilly's operations, the Finance function, and the pharmaceutical industry.

PROGRAM FEATURES



LILLY PERKS

- » Competitive pay
- » Downtown Indianapolis housing options
- » Free gym membership

A GREAT PLACE TO WORK

- » [DiversityInc](#), Top 50 Companies for Diversity, No. 3
- » [Ethisphere](#), World's Most Ethical Companies
- » [Forbes](#), America's Best Employers for Diversity
- » [Human Rights Campaign Foundation](#), Corporate Equality Index – Perfect Score
- » [Newsweek](#), America's Most Responsible Companies

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OVERVIEW

As a Lilly intern, you'll be on the front lines of our life-changing work. You'll join a valued team that contributes to developing new therapies and manufacturing our existing medications through problem solving, productivity improvements, capital project management and more.

BUSINESS AREAS



SITES



SERVICES



R&D

Manufacturing

- » **Fermentation/Purification** (Indianapolis, IN & Branchburg, NJ)
 - Active Pharmaceutical Ingredient – Manufactures raw materials and chemical processing to produce insulin and oncology medicines.
- » **Solid/Parenteral Dosage Forms** (Indianapolis, IN)
 - Parenteral Manufacturing – Filters and aseptically fills API into a sterile container (vial, cartridge and syringe) for the purpose of injection.
- » **Device Manufacturing** (Indianapolis, IN & Durham, NC)
 - Develops and supports Device Assembly & Packaging – Assembles aseptically filled cartridges and syringes into devices by machine prior and then labeling and packaging into the finished cartons with literature.
- » **Packaging** (Indianapolis, IN)
 - Dry Packaging – Fills bottles/blister packs with tablets and capsules and packaging into the finished cartons with literature.
- » **Supply Utilities** (Indianapolis, IN)
 - Central Utilities – Supplies bulk utilities (steam, glycol, etc.) utilized throughout all manufacturing sites.

Manufacturing (Continued)

- » **Engineering Tech Center** (Indianapolis, IN)
 - Engineering Tech Center – Supports global manufacturing sites with continuous improvement, process modeling, automation, project and process engineering support using first principles.
- » **External Device Development** (Indianapolis, IN)
 - Indianapolis Device Manufacturing – Develops mechanical processes associated with device manufacturing from development to large scale production.

Research and Development

- » **Biologics Development** (Indianapolis, IN)
 - Bioproduct Research and Development – design, develop and optimize processes for parenteral (injectable) solutions.
- » **Device Development** (Indianapolis, IN & Cambridge, MA)
 - Delivery Device and Connected Solutions – design, develop and optimize connected solutions and delivery devices for injectable medicines.

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Technical Skills

Data Analysis / Data Mining

ability to pull and analyze data and graphs to identify trends and outliers.

Problem Solving

ability to combine data, process functionality, etc. to understand mechanical, equipment or software limitations and improve the system.

Project Management

ability to understand the process, make decisions on how best to improve a system and follow procedures to implement a project timely, safely and cost effectively.

Functional Areas

Automation

Design/modification of hardware/software that is used to control the manufacturing process. Respond to daily operational issues by providing improvements for the automated software in order to protect product.

Process

Respond to daily operational issues by providing mechanical solutions for equipment in order to protect product. Responsible for routine data monitoring and process improvements for equipment on the manufacturing floor.

Plant

Provide daily support and troubleshooting expertise and leads capital improvements for all HVAC systems, non-process utilities and building support systems. Closely involved with day to day operations of the plant.

Project

Manage capital plan and provide accountability for financial performance of assigned projects including preparation of project scope, schedule and budget.

Modeling

Combine engineering theories and software to generate valuable engineering tools.

Reliability

Responsible for the equipment and associated maintenance used in manufacturing processes.

Environmental

Responsible for implementing/maintaining environmental programs for regulatory compliance in a manufacturing plant setting and relating regulations and their importance to local manufacturing processes.

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