

BioE Industry Day Preview



November 16th, 2016

Abbott Laboratories



Abbott Laboratories: Chicago based, historically an important pharmaceutical company since 1888, but pharma has been spun off to new company (AbbVie).

Produces many medical devices, diagnostics, and nutrition products (**Ensure**®).

Emphasis on point of care testing and blood screening, including the first HIV blood test (1985).

Huge company: \$20 billion revenue, 73,000 employees in 150 countries

Engineering positions: Software, quality, manufacturing, systems, process, mechanical

Non-managerial salary: \$78k-103k

Internships: \$19.24/hr



#1 most “admired” medical company ‘14, ‘15, ‘16 (Fortune)

Baxter - DeerField, IL

The Baxter logo is displayed in a bold, italicized, black sans-serif font, centered within a white rectangular box.

- For more than 80 years, Baxter has introduced significant medical innovations, including the first commercially produced intravenous (IV) solutions and the first home-based dialysis system as an alternative to hemodialysis in a hospital or clinic.

Latest Accomplishment: 2015 — Baxter successfully spins off its BioScience business into Baxalta Incorporated, another New York Stock Exchange listed company.

The Baxalta logo is displayed in a bold, blue sans-serif font, centered within a white rectangular box.

- Revenue: 16.3 USD\$, Salaries from \$64K -130K /per year
- Link to Internships and Co-op Programs :
<http://www.baxter.com/careers/programs/healthcare-internships-co-ops.page?>

Fresenius Kabi



- Fresenius Kabi is a global healthcare company that specializes in lifesaving medicines and technologies for infusion, transfusion and clinical nutrition. Products range from anesthesia to pharmaceuticals and medical devices.

Latest Accomplishment: August 2016 — Fresenius Kabi recently invested \$250 million to expand it's Melrose Park plant. The expansion is scheduled to be completed in 2026 and will focus on increasing production of injectable generic pharmaceuticals.

- Branch of European company Fresenius- Based in Homburg Germany
- Revenue: \$27.995 Billion, Salaries from \$105-114K /per year
- Link to Internships and Co-op Programs :
<https://www.fresenius-kabi.com/sites/global/pages/Career/InternshipsatFreseniusKabi.aspx>

Filtran LLC - Des Plaines, IL



- Filtran LLC is a global leader in filtration solutions and a trusted name for quality automatic transmission filters.
- Currently, with its advanced engineering and design capabilities, Filtran is working with the leading OEMs to design multi-filter solutions with advanced filtration media for the transmissions and engines of the future.
- Revenue: 172.49 mil \$USD
- No current internships
- Average Salary: 47K - 77K \$USD



Pressure filter housing for double-clutch transmission



Suction filter for double-clutch transmission



Integrated oil pan with suction filter

Exponent “Entrepreneurship with an Umbrella”

- **Consulting** firm: Columbia Space Shuttle Disaster, Oklahoma City Bombing, 2009-2010 Toyota Recall
- Analyze failures to determine their causes and how to prevent them
 - Evaluate the performance of biomaterials, biological tissues, and medical devices
 - Perform preclinical testing, numerical modeling, and failure analysis; analyze human motion, injury potential, recreate accidents, and conduct research
 - Pros: Astounding colleagues, most important projects in the US, simply employee progression
 - Cons: 50+ hours of week, 1 week notice on overnight travel, aggressive go-getter environment
- Locations: Chicago, Detroit, SF Bay, SoCal, NYC, Houston, Seattle and more
- Average Salaries:
 - Engineering (Biomechanics): 104k /year
 - Engineering (General): 97k /year
 - Engineering Intern: \$17.50 /hour
 - Managing Engineering 127k /year



iBio

- Illinois Biotechnology Industry Organization
- Socially conscientious mission statement:
 - “Promote sound public policy at the local, state, and federal levels
 - Improves our region’s ability to create, attract and retain businesses
 - Orchestrates industry involvement to help solve America’s math and science education crisis
 - Builds community by providing opportunities to connect and engage with the industry”
- Networking organization connecting industry, academics, etc.
- Offers career connections for Bioengineers
- Career postings on their website along with option to upload resume, current postings from Abbvie & GE



Spherotech Inc.

- Small company: <50 employees
- Manufactures microparticles for drug and medical device industries (ferromagnetic, fluorescent, latex, paramagnetic, etc.)
- Founded in 1992
- Headquartered in Lake Forest, IL
- A couple of job postings asking for majors in Chemistry or related field



Pfizer

- Pfizer's mission statement is to provide access to safe, effective and affordable medicines and related health care services to the people who need them.
- Pfizer employees work across developed and emerging markets to advance wellness, prevention, treatments and cures that challenge current diseases
- Their headquarters is located in New York City, NY
 - They also have domestic locations on New Jersey, North Carolina, Michigan, and Massachusetts
- They have positions for Research scientists, technicians, biomedical engineers, and computer software engineers
- The average salary ranges between \$63,616 - \$102,237



Nanovation Partners

- Nanovation Partners is a nanotechnology organization that focuses on the development, production, and distribution of high purity nanotubes for the Medtech industry
- Located on the West and East coast, with bases in Orlando, Florida and California
- Really small company, only have about **10 employees!** Which means they could be looking to grow their company size.
- They specialize in **Nanotechnology**, **Orthopedics**, and **Medical Implants**





Hospira - A Pfizer Company

“The world's leading provider of injectable drugs and infusion technologies”

10,000+ employees

\$2-5 B in annual revenue

- Drugs, IV sets, Infusion pumps

Global company, HQ'ed in local Lake Forest



Engineer 3 Hospira Chicago Salaries (of 10)	\$99,557	\$74k - \$117k
Systems Engineer 3 Hospira Chicago Salaries (of 4)	\$96,353	\$65k - \$146k
Quality Engineer 3 Hospira Chicago Salaries (of 13)	\$70,266	\$62k - \$85k
Software Engineer 2 Hospira Chicago Salaries (of 4)	\$83,641	\$80k - \$87k