Industry Guide: Pharmaceutical
Pharmaceutical Industry Introduction
Pharmaceutical manufacturers discover, test and market plant or chemical based products to treat or prevent illness in humans. The pharma industry is very competitive and driven by the demand to cure illness; a company’s success depends on their ability to continue to develop new drugs. The Pharm industry is a large revenue generating industry, making and estimate of $200B in the US, and $950B worldwide. Other countries that are leading the way in this industry are France, the UK, Switzerland and Germany. Research and Development is the driving force behind the industry, but the R&B process is also a large business challenge. A single drug can take anywhere from 10-15 years to produce and cost roughly $1B, and many drugs do not make it to market due to the highly regulated polices and testing by the Federal Drug Administration.

Positions in Pharmaceutical
Introductory Heading Here
The pharmaceutical industry has a variety of roles and positions. They hire scientist, engineers, physicians, Use this space to talk about the types of positions available in this area. Is this very engineering focused? Are there clusters of geographic areas where this type of work is done? Is this an industry that needs lots of different types of engineers?

Typical Position Titles:
Research Associate
Scientist
Patent Agent
Business Development Mgr.
Analyst
Pharmaceutical Program Mgr.

Courses and Programs Typical for Pharmaceutical
Course 5
Course 7
Course 10
Course 20
ESD

Not everyone employed in the Pharmaceutical industry graduated with one of these majors, but many of the MIT graduates working in the industry come from these courses and programs.

Major Employers
Introductory Heading Here
What sort of employers hire MIT students? Can you find MIT alumni in leadership positions in these companies? Have MIT alumni started their own companies in this industry? Maybe include a statistic on how many MIT alumni work for a Major company or mention an alum in a leadership position.

These Companies Recruited Interns at MIT
This information comes from the Summer Experience Survey and MIT GECD’s CareerBridge website and is not an exhaustive list and this doesn’t necessarily mean they are hiring interns now. Use this list as a place to start your search for an internship. Does MISTI offer Internships?

Research is Great Experience
Valuable Experience can be Gained at MIT

Novartis
Merck
Genentech
Momenta Pharmaceuticals
Navsys

Age Lab
Bosak Lab
Koch Institute for Integrative Cancer Research
Whitehead Institute for Biomedical Research

Amgen
Genentech
Merck
National Institutes of Health
Pfizer
Sanofi Pasteur
UROPs and graduate research done at MIT can be very helpful to enhance your candidacy for a position in Pharmaceutical. Many of the companies in this industry partner with labs at MIT on projects and research. Here are a few examples of labs with research sponsored by companies in the Pharmaceutical industry. The value in doing research isn’t strictly in the experience either. Many of the people you’ll meet here at MIT are well connected to important players in the major employers.

The Job Search and Interview Process

The Pharmaceutical industry is projected to grow at a compounded rate of 5% annually between 2014 and 2018. Although the job market is healthy, the competition to secure jobs is stiff. To break into the industry, making a personal connection with someone (possibly an alum), is key. Another way to stand out among the crowd is to have a strong personal brand and online presence.

Salary Information

This salary information comes from the 2013 Graduating Student Survey
Average SB Salary $65,000  Average SM Salary $124,500

Additional Resources

Professional Organizations
American Association of Pharmaceutical Scientists (AAPS) www.aaps.org
Pharmaceutical Research and Manufacturers of America http://www.phrma.org/ Three Lines

Industry Journals or Trade Publications
Journal of Pharmaceutical Sciences
The AAPS Journal
Pharmacology & Therapeutics

Job search websites
www.medzilla.com
www.biospace.com
http://www.pharmadiversityjobboard.com

GECD Services

Drop-in Hours: Monday-Friday 11am-3pm

GECD Staff are available year round for appointments. To make an appointment, login to CareerBridge and select “Make Appointment” from the left side of the welcome page. You can also book by coming in to our office at E39-305 or by calling 617-715-5329

Check out our Calendar for Events and information on Employer Presentations!
http://gecd.mit.edu/calendar