Biotechnology Industry Overview

What is Biotechnology?
Biotechnology is the use or manipulation of living organisms or their parts to make a useful product. In our region, this includes biomanufacturing as well as the production of medical devices.

What kind of training is available?
In 2004, Ivy Tech Community College - Bloomington established a two-year degree program in biotechnology through a grant from the Lilly Endowment. Since then, we have developed training and degree programs that meet the demand of the local biotechnology industry. We have received additional grants from the National Science Foundation, the State of Indiana Strategic Skills Initiative, and Lilly Endowment. Our local industry partners continually enable us to expand our training and obtain state-of-the-art equipment.

Ivy Tech - Bloomington offers certificate programs, two-year degree programs, and a two-year degree that transfers to four-year institutions, and counts toward a bachelor’s degree.

The entire Ivy Tech AS degree in Biotechnology transfers seamlessly to IU-Bloomington.

The tuition and fees for two years of biotechnology college education at Ivy Tech costs about one third of the average cost of two years at public four year universities in Indiana.

Are there jobs in Biotechnology?
According to a study by the Indiana Health Industry Forum, in 2008 there were 798 biosciences companies in Indiana employing 52,832 people. This employment sector is growing faster in Indiana than the nation and growing faster than employment in other private sector industries. From 2001 to 2008, employment in Indiana biosciences grew 17.2%, compared to -0.9% in overall private employment.

The biotechnology industry is particularly important for the Bloomington region. According to a 2010 Batelle study, Bloomington ranked #3 in the nation in concentration of drug and pharmaceutical employment among small metropolitan areas. That same study ranked Bloomington #1 for medical device employment concentration for small metropolitan areas. Biotechnology jobs are certainly available.

The Biotechnology program partners with:

**Pharmaceutical Companies:**
- Baxter Biopharma Solutions, Bloomington, IN
- BioConvergence, Bloomington, IN
- Cook Pharmica, Bloomington, IN
- KP Pharmaceutical Technology, Inc., Bloomington, IN

**Medical Device Companies:**
- Boston Scientific, Spencer, IN
- Cook Medical Group, Bloomington, IN
- Cook Urological, Spencer, IN

**Research Labs:**
- Indiana University, Bloomington, IN

Jobs in Biotechnology:

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<th>Discovery Research</th>
<th>Regulatory Affairs</th>
<th>Process Development</th>
<th>Facilities</th>
<th>Manufacturing</th>
<th>Quality Control</th>
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<tbody>
<tr>
<td>Lab Assistant</td>
<td>Document Specialist</td>
<td>PD Assistant</td>
<td>Mechanic</td>
<td>Materials Handler</td>
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<tr>
<td>Research Associate</td>
<td>Regulatory Associate</td>
<td>PD Associate</td>
<td>Electrician</td>
<td>Manufacturing Assistant</td>
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<td>Senior RA</td>
<td>Labeling Associate</td>
<td>PD Scientist</td>
<td>Instrument Technician</td>
<td>Manufacturing Associate</td>
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<td>Scientist</td>
<td>Dossier Management Associate</td>
<td>PD Engineer</td>
<td>Facilities Engineer</td>
<td>Lead Manufacturing Associate</td>
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<td>Senior Scientist</td>
<td>Associate Regulatory Affairs</td>
<td>PD Director</td>
<td>Health and Safety Engineer</td>
<td>Manufacturing Supervisor</td>
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<td>Research Director</td>
<td>Director Regulatory Affairs</td>
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<td>Maintenance Manager</td>
<td>Manufacturing Manager</td>
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More information on job descriptions and salary information can be found at: [www.lscalliance.org/pdfs/Biotech_Pharma_careers.pdf](http://www.lscalliance.org/pdfs/Biotech_Pharma_careers.pdf)

ivytech.edu/biotechnology