



Roles BME students take in their organizations?

Job Title	Description
R&D Co-Op	Under direct supervision and guidance, this co-op provides an opportunity for students to be exposed to the medical device field and offered hands on experience working within the Research & Development group. Working with cross-functional product development teams and alongside experienced engineers, BME students can contribute to design solutions and the advancement of new product development projects. BME students are assigned to a specific product and/or team, and are in charge of compiling, analyzing, and reporting operational test and research data to establish performance standards for newly designed or recently modified products, processes, or materials.
R&D Co-Op (Product Engineering Group)	This Co-Op provides the opportunity for BME students to have hands on experience working within the Research & Development group in an Engineering capacity. BME students have the opportunity to use state of the art tools (3D printers, machine shopping, CNC laser cutters) and take advantage of company training courses. BME students work on product teams and are expected to contribute to ongoing technical and engineering support for end products. BME students are also responsible for compiling, analyzing, and reporting test data to verify and benchmark the performance of products processes and materials.

What technical skills do they look for in BME students?

Job Title	Skill	Expectation Level			
		Freshman	Sophomore	Junior	Senior
R&D Co-Op	Must be enrolled in an accredited college; good academic standing; Min 3.0 GPA; pursuing a Masters degree in Biomedical Engineering	Not considered	Introduction into basic design process, understanding proper needs finding, developing and writing test methods; formulating, characterizing, and	Can assist in inventing/creating concepts and designs/approaches for new products and processes; can prepare standard reports and documentation to communicate	Familiarity with medical device industry, relevant industry standards, professional certification or designation preferred; Can demonstrate



Stakeholder: Large Medical Device Company

			evaluating product prototypes; experience working in a research lab	results to technical community	ability to effectively integrate information from Clinical Medicine, Engineering, Marketing, and Regulatory Affairs disciplines
R&D Co-Op (Product Engineering Group)	Must be enrolled in an accredited college; good academic standing; Min 3.0 GPA; pursuing a Bachelors degree in Biomedical or Chemical Engineering	Not considered	Can undertake and successfully complete simple or basic project/product development tasks such as documenting test results, analyzing data, and writing final reports	Has developed skills in computer-aided software (COMSOL, SolidWorks), has some programming experience (C++, Python, Matlab, HTTP), understands basics of 3D printing and creating 3D models; can complete basic tasks on engineering documentation and can communicate results to a technical community	Can coordinate, conduct, and oversee the completion of sample preparation, engineering testing and experiments, can identify areas for improvement and suggest solutions



What soft skills do they look for in BME students?

Soft Skill	Description
R&D Co-Op	Can demonstrate ability to effectively integrate information for varied disciplines Ability to work in a highly matrixed and geographically diverse business environment Ability to engage others to accomplish projects Have experience working in a broader enterprise/cross division business unit model preferred
R&D Co-Op (Product Engineering Group)	Ability to work within a team and as an individual contributor in a fast paced, changing environment Has experience with project management, can manage deadlines and resource allocation Conflict management skills is a plus