

STEM

INDUSTRY SPOTLIGHT

Global, Spine & Biologics
headquartered in Memphis, TN



Medtronic



Q What is the mission of your company?

A To contribute to human welfare by application of biomedical engineering in the research, design, manufacture, and sale of instruments or appliances that alleviate pain, restore health, and extend life.

Q What areas of STEM are represented in your company?

A Science, Technology, Engineering

Q What degrees/certificates are required to obtain a STEM career position at the company?

A A bachelor's degree is the minimum requirement for all technical positions.

Q What skills are required to work at your company and what skills should students develop if they plan to enter a STEM field?

A Technical Writing Understanding of Quality Tools, CAD Software, Metal Manufacturing, Computer Skills, Experience with medical devices (Instruments & Implants), Exposure to working in a cross-functional team (Quality, Regulatory, Manufacturing), Basic understanding of MSAs/GR&Rs, Basic understanding of manufacturing qualifications (IQ/OQ/PQ).

Q What kinds of internships does your company offer (if any)?

A Some internships in Engineering.

Q What is an interesting fact about your company that would appeal to a student?

A Medtronic is a Global Leader in Spine Industry.

Q Does your company currently engage in outreach programs involving K12 students and teachers or college students?

A Yes.

Q What advice would you share with students that are considering a STEM profession?

A Seek opportunities to gain experience while attending school.

Q Why should a student consider your company as a future employer?

A Medtronic is the world's largest medical technology company, offering an unprecedented breadth and depth of innovative therapies to fulfill our Mission of alleviating pain, restoring health, and extending life. Last year, more than 9 million people benefited from our medical therapies, which treat cardiac and vascular diseases, diabetes, and neurological and musculoskeletal conditions.

Q Do you anticipate a high demand for STEM professionals at your company in the next 4-8 years?

A Yes, these are key functions to our business.



INDUSTRY SPOTLIGHT

INTERNATIONAL PAPER

International Paper (NYSE: IP) is a global leader in packaging and paper with manufacturing operations in North America, Europe, Latin America, Russia, Asia and North Africa. Its businesses include industrial and consumer packaging and uncoated papers, complemented by xpedx, the company's North American distribution company. Headquartered in Memphis, Tenn., the company employs approximately 70,000 people and is strategically located in more than 24 countries serving customers worldwide. International Paper net sales for 2012 were \$28 billion. For more information about International Paper, its products and stewardship efforts, visit internationalpaper.com.

Q What is the mission of your company?

A **Vision:** To be one of the most respected and successful companies in the world
Mission: To improve the world, today and for generations to come, by using renewable resources to make products people depend on every day.

Q What areas of STEM are represented in your company?

A The following areas of STEM are represented at International Paper: chemical engineering, computer science, electrical engineering, industrial engineering, math, mechanical engineering, statistics, and transportation.

Q What degrees/certificates are required to obtain a STEM career position at the company?

A An undergraduate degree is typically required to obtain a STEM career position at International Paper.

Q What is the median salary of a STEM Professional at the company?

A International Paper's approach to compensation is to pay competitively and reward for performance. We practice a philosophy called total rewards. The total rewards philosophy provides employees with a competitive, performance-based total rewards package that includes compensation, benefits, employee development, and work environment.

Q What skills are required to work at your company?

A Skills required to work at International Paper include: excellent interpersonal skills, self-motivation, willing to teach and train others, proven leadership abilities, a positive attitude toward workplace safety, and strong time management skills.

Q What kinds of internships does your company offer (if any)?

A Past internship opportunities have included: chemical engineering, communications, computer science, environmental engineering, forestry, human resources, marketing, mechanical engineering, paper engineering, pulp & paper technology.

Q What skills should students develop if they plan to enter a STEM field?

A If students plan to enter a STEM field they should get exposure to an industrial/manufacturing setting. This can come through internships, course work, and even touring/visiting manufacturing sites. Students need to develop their communication skills, both written and verbal, and their leadership skills. They should understand how to work in a team and rally the team when required. Students entering a STEM field should also develop an understanding of basic business principles in addition to their technical knowledge.

Q What is an interesting fact about your company that would appeal to a student?

- A FORTUNE Magazine**—Ranked IP 111th in the magazine's FORTUNE 500® edition
- **FORTUNE “World’s Most Admired Companies®” 2012**—Named #1 in Forest and Paper Products Industry
 - **Ethisphere Institute’s World’s Most Ethical Companies®**—Named among Ethisphere Institute’s World’s Most Ethical Companies® for the sixth consecutive year
 - **Ranked 21st among the world’s 100 Best Corporate Citizens** by Corporate Responsibility Magazine
 - **Recognized Among 40 Best Companies for Leaders** in 2012 by Chief Executive
 - First Forest Products company to receive **EPA Climate Leadership Award**
 - Recognized by the United Nations and PR News as a leader in the fight against hunger with the **Coins 4 Kids** school feeding program
 - **IP’s Foundations** conduct our global philanthropic activities through our foundations in Brazil, Poland and the U.S. Combined with corporate contributions, we annually donate more than \$10 million worldwide to support hundreds of community-based programs. IP’s Foundations primary focus areas are environmental education, literacy, health and human services and employee involvement.
 - **Our Employee Relief Fund (ERF)** assists employees and communities affected by natural disasters, personal tragedy or other events beyond their control. The ERF enables the company and employees to pool resources in response to disasters around the world.

Q Does your company currently engage in outreach programs involving K12 students and teachers or college students?

A International Paper supports education at all levels in communities around the world in many different ways.

Q What advice would you share with students that are considering a STEM profession?

A STEM professions are challenging and rewarding and open the door to career opportunities in a many fields and industries. A STEM education will provide you with the flexibility to pursue many different dreams and ambitions.

Q Why should a student consider your company as a future employer?

A International Paper’s global presence and diverse businesses offer employees the chance to grow their careers in many ways. Leadership and people development are core values at our company, and our policies and best practices are a good indication that we care about our employees, our customers and the communities where we live and work. We have a long history as good stewards of the world’s forests, and our global presence helps us to make significant impacts in the area of sustainability that have positive impacts today and for generations to come. International Paper is truly a company that offers infinite possibilities and experiences for its employees.

Q Do you anticipate a high demand for STEM professionals at your company in the next 4-8 years?

A We always have a strong need for STEM professionals with a strong desire to be part of a challenging and rewarding work environment. As the “baby boomers” (born between 1946 and 1964) reach retirement age over the next 5-10 years, we anticipate this need will increase.

