

Boston Scientific

Intern Information Packet

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Candidate Submission Guidance

For the purposes of Candidate Submissions, please have interested students create a profile and submit a resume by November 18, 2016 using this link - <https://bit.ly/HBCUVCF2017>.

Candidate Review Guidance

As part of the Boston Scientific Candidate Review Process, we will assess the candidate's qualifications against the particular needs of our internship opportunities to recommend individual placements. Depending on the number of candidate submissions, we may not be able to place all candidates. Likewise, we understand that these students are in high demand and may not choose to participate in the Boston Scientific internship program. As such, we ask that you consider the candidate's interest and willingness to accept an internship opportunity based on the enclosed information.

Program Elements

Boston Scientific's College Recruiting Program provides students opportunities at all of our sites across the country. Our focus is to help develop our interns in their academic field of study as well as prepare them for a successful career through meaningful projects and experiences.

Interns are provided with a comprehensive package including housing support, option for corporate housing at \$400/month or a \$1,500 stipend, round-trip airfare to/from school to BSC, daily shuttle for those living in the corporate apartments without transportation, mentoring, and several structured events and training throughout the summer.

About Boston Scientific



22 MILLION
PATIENTS TREATED
EACH YEAR

100
COUNTRIES



100+ COUNTRIES
WITH COMMERCIAL
REPRESENTATION

13

THOUSAND
LIFE CHANGING PRODUCTS

At Boston Scientific...It's personal... Everyone at Boston Scientific has consciously chosen to be a part of the work that we do. Our 26,000 global employees are empowered to fix problems to challenges that truly matter. This is core to our mission of transforming lives by advancing science. Every person here acts with humility and fierce passion, to impact peoples' lives down the street and across the world.

We understand that choosing the right place of work is an important decision. It's not just about the company, it's also about finding purpose and a place to grow.

We provide opportunity to harness all that's within a person through diverse and high-performance teams, tackling some of the most important health industry challenges.

Boston Scientific has the capacity to improve the lives of millions of people around the world and because we reach so many, you can feel proud that this may include your own friends and family.

This is more than just another job.

This is a place where people can find meaningful purpose, improving lives through their life's work.

This is more than a career decision, it's personal.

Sample Intern Job Descriptions

Biomedical Engineering Intern Job Description

Biomedical engineers apply engineering principles and materials technology to healthcare. This can include researching, designing and developing medical products, such as stents, balloons, or catheters, designing or modifying anatomical models, developing test methods, or conducting testing of existing or new medical products in development.

Key Expectations:

- Use computer software and mathematical models to design, develop and test new materials, processes, devices, and equipment. This can involve building and evaluating prototypes, troubleshooting problems, developing processes, and rethinking the design until it works correctly.
- Liaise with engineers and technicians to ensure the feasibility of a product in terms of design and economic viability.
- Conduct research to solve clinical problems using a variety of means to collate the necessary information, including questionnaires, interviews and group discussions.
- Discuss and solve problems with manufacturing, quality, purchasing, and marketing departments.
- Analyze data, write reports and create presentations to present your work and latest design to a range of technical and non-technical audiences.

Requirements:

- Have a minimum 3.2 GPA
- Be working towards a Biomedical engineering degree and are a rising junior or senior
- Coursework in human anatomy and physiology that can be applied to the development of medical products and anatomical models.
- Strong interest in the use of 3D printing technologies to create anatomical models used throughout the product development process.
- Knowledge of materials science that can be applied to materials selection and evaluation of anatomical models.
- Be legally authorized to work in the United States without restriction

Chemical Engineer Intern Job Description

The Chemical Engineer Intern has completed some courses in the chemical engineering curriculum, learned practical chemical handling and analytical skills, and has demonstrated the ability to work in an academic team setting. Applies engineering/scientific skills to execute process development or analytical chemistry experiments, complete data analysis, and interpret results in support of projects.

Key Expectations:

- Complete company and department training prior to start of intern project execution.
- Supports development or testing of new or improved technologies for medical device new product development, manufacturing, or quality assurance.
- Develops an understanding of experiments/protocols; executes under direction; completes work with guidance within functional area.
- Applies basic data analysis; identifies basic problematic issues with data; compares results with historical data.
- Summarizes results, authors or contributes to the generation of technical reports, and completes experimental paperwork/lab notebook documentation in accordance with company SOPs.
- Adheres to all EH&S procedures and general housekeeping SOPs.
- Complies with site and department specific procedures on record keeping, use of log books, and inventory control.
- Communicates results and experience from internship to functional group and management; e.g., PowerPoint presentation to a group.

Requirements:

- Have a minimum 3.2 GPA
- Be working towards a Chemical engineering degree and are a rising junior or senior
- Lab experience
- Classroom project experience
- General report writing/documentation experience
- Be legally authorized to work in the United States without restriction

Electrical Engineer Intern Job Description

Working closely with members of engineering teams, provide electrical and electronic engineering support and expertise in the definition, design, development and test of products.

Key Expectations:

- Complete a project with an emphasis on electrical or electronic engineering.
- Designs, develops, debugs, modifies, and tests electrical circuits and systems by using current tools, analysis techniques, and technologies.
- Documents electrical development by writing documents, reports, memos, change requests. Methods used are determined by approved procedures and standards.
- Tracks electrical development effort by creating and maintaining records in the approved tracking management tool.
- Analyzes, evaluates, verifies, requirements, circuits, and systems by using engineering practices.
- Investigates, researches, selects electronic circuits, components, tools, equipment and practices.

Requirements:

- Have a minimum 3.2 GPA
- Be working towards an Electrical engineering degree and are a rising junior or senior
- Classroom knowledge of electrical or electronic engineering practices
- Classroom project experience
- Be legally authorized to work in the United States without restriction

Industrial Engineer Intern Job Description

Work with key business partners to drive value improvement guided by lean principles in order to support business strategy and priorities.

Key Expectations:

- Coach and engage key partners through problem solving and systematic kaizen for higher quality, quicker response and lower cost.
- Assist in the identification and pursuit of value improvement and waste elimination projects to support manufacturing and overhead areas.
- Perform and participate in line layout and design projects with the Process Development Engineering, Production, Facilities and Manufacturing Engineering teams.
- Actively participate in lean projects with the Production, Process Development, Manufacturing Engineering and support functions.
- Create and update production labor standards.

Requirements:

- Have a minimum 3.2 GPA
- Be working towards an Industrial engineering degree and are a rising junior or senior
- Coursework in Operations, Manufacturing or Lean principles
- Demonstrates excellent skills in organization, team dynamics, effective communication, prioritization of tasks and delivery of commitments
- Be legally authorized to work in the United States without restriction

Material Science Engineer Intern Job Description

Collaborate with co-workers and lab customers to perform, execute and document experiments, data analysis and summary reports. Complete required company and department training, adhere to SOP's and quality systems,

Key Expectations:

- R&D exploratory work to characterize mechanical and chemical degradation behavior of bioabsorbable medical device materials.
- Hands-on analytical laboratory testing of materials to assess material and process candidates.
- Execute analysis, compile results, interpret results, report what was learned and provide recommendations.
- May work with metals and/or polymers.

Requirements:

- Have a minimum 3.2 GPA
- Be working towards a Material Science engineering degree and are a rising junior or senior
- Prior materials science or chemistry lab experience preferred, especially in metallography, corrosion, and gravimetric analysis.
- Skilled in documenting experiments and report writing
- Be legally authorized to work in the United States without restriction

Mechanical Engineer Intern Job Description

A Mechanical Engineering Intern will develop products, materials, processes, or equipment for projects of moderate complexity. Compiles, analyzes, and reports operational, test, and research data to establish performance standards for newly designed or modified products, processes, and materials.

Key Responsibilities

- Works on a project that could include the following activities: product design and development test of materials, preparation of specifications, process capability studies, report preparation, and process/test documentation.
- Designs and coordinates standard engineering tests and experiments.
- Performs troubleshooting on new products/process problems as related to design, material, or process.
- Summarizes, analyzes, and draws conclusions from test results.
- Prepares standard reports/documentation to communicate results to technical community.

Requirements:

- Have a minimum 3.2 GPA
- Be working towards a Mechanical engineering degree and are a rising junior or senior
- Effective communication skills
- Classroom project experience
- Be legally authorized to work in the United States without restriction

Software Engineering Intern Job Description

The intern will work on a project focused on next generation technology to enable acquiring data from an implanted medical device, sending that data to the cloud for further display and processing. A successful intern will need to innovatively design and integrate existing hardware with new hardware and firmware in order to achieve this goal. This project may include selecting parts, wiring together the system, integration of the system and evaluating performance. The intern will gain knowledge about what it takes to develop world class medical devices using new communication protocols.

Key Responsibilities

- Designs, develops, debugs, modifies, and tests software programs by using current programming languages, methodologies and technologies.
- Documents software development and/or test development by writing documents, reports, memos, change requests. Methods used are determined by approved procedures and standards.
- Tracks software development effort by creating and maintaining records in the approved tracking management tool.
- Analyzes, evaluates, and verifies requirements, software and systems by using software engineering practices.
- Investigates, researches, selects software designs, operating systems and/or practices.
- Continuously improves process and work methodologies by interfacing with peers/cross-functional groups and analyzing activities to improve workflow and work processes.

Requirements:

- Have a minimum 3.2 GPA
- Be working towards a Computer Engineering, Computer Science or Software Engineering degree and are a rising junior or senior
- Firmware development experience is highly desired (C++)
- Electronic engineering design skills are highly desired
- Familiarity with communications protocols such as the Internet Protocol, Bluetooth, and Cellular is a plus.
- Writing proficiency is required.
- Be legally authorized to work in the United States without restriction