

## Engineering Career Day Agenda

Activity	# of Students in Groups	Amount of Time Spent	Description
Sign-in	Small Groups of 1-6 arrive together	20-30 minutes	Students get their visitor badges, agenda, and a Frequency Asked Questions list. They have some time to sit down and review the list before an informal Question & Answer period.
Welcome & BAE Systems Introduction	30	30 minutes	The two tour guides for the day give a brief introduction of their engineering background including where they went to college and are currently pursuing their masters' degree as well as a description of their past and current technical work assignments. The students are shown two videos, one with BAE Systems products and innovations and another about accelerated programs that companies like BAE Systems offer to recent college graduates. An informal question and answer period follows in order for the students to ask the tour guides questions about engineering, BAE Systems, or pertaining to the FAQ sheet.
Microelectronic Center Tour	15	40 minutes	The students are guided through a window tour of the Microelectronics Center (MEC), a Gallium Arsenide semiconductor foundry. The students see first-hand the process used to make processor chips, similar to those found in a computer, while learning about such things as photolithography and clean room "bunny suits".
Circuit Card Assembly Tour	15	40 minutes	The students are escorted through the Circuit Card Assembly area by a floor supervisor, in their third year out of college, where electronic circuit boards are created for electronic equipment needed by the military. They are taken through the assembly line to see how the product is created, tested, and packaged, awaiting box level integration.
Engineering Experience	Small Groups of 6-8	45 minutes	Students will be given a small project, a coach and scorer will be assign to them. Purpose of this activity is to create an environment to experience what engineers do in the life cycle of a product.
Pizza Lunch with Young Engineers	30	30 minutes	Young engineers spend an informal lunch with the students, talking about their personal experiences in college in engineering industry and answering any questions the students may have about engineering activities and courses at the high school level. The students get a lot of individualized attention in this session because there is a 4:1 student to young engineer ratio.
Introduction to Women in Technology, FIRST, Explorer's Post and Internships	30	30 minutes	The engineering-related extracurricular programs BAE Systems supports at the high school level are presented to the students. They have the opportunity to hear a brief description of each program directly from the coordinators themselves. A representative from Human Resources describes our intern program for high school and college students.
System Development Center Tour	15	60 minutes	In this lab, the students learn about simulations and situational-awareness. They learn how to create mathematical models of real-life situations using tools such as Matlab. They also view a demonstration of a tool called Satellite Toolkit which teaches them how the GPS satellite network works.
Engineering Panel Discussion	15	60 minutes	5-6 engineers and managers form a diverse panel with a wide range of backgrounds and experience levels to discuss how they became engineers, what interests they have in the engineering field, and provide answers to the student's questions about engineering, engineering curriculum in college, and how to become successful in the engineering industry.
Sign-out	Small Groups	5 minutes	The students return their badges and ask any last-minute questions they might have.