

## **COMPANIES THAT OFFER INTERNSHIP/JOB SHADOW OPPORTUNITIES FOR HIGH SCHOOL STUDENTS**

*This information was gathered at the Tri-County Tech Prep Engineering Career Fair in March 2005.*

### **B & E PRECISION AIRCRAFT COMPONENTS**

Southwick, MA 413-569-5585

### **ELM ELECTRICAL**

Westfield, MA 413-568-0905

### **EMC**

Hopkinton, MA 508-435-1000

### **HAMILTON SUNDSTRAND**

Windsor Locks, CT 860-654-7026

### **MASSACHUSETTS AIR NATIONAL GUARD**

Westfield, MA

### **NORTHAMPTON AERONAUTICS INC.**

Northampton, MA 413-584-7980

### **NORTHEAST HELICOPTERS**

Ellington, CT 860-871-2054

### **SPRINGFIELD MUSEUMS**

Springfield, MA 413-263-6800

### **TIGHE & BOND, INC.**

Westfield, MA 413-562-1600

### **TUBED PRODUCTS, INC.**

Easthampton, MA 413-527-1250

### **UNIVERSAL PLASITCS**

Holyoke, MA 413-592-4791

### **WMASS CENTER FOR SUSTAIN AQUICULTURE**

Monterey, MA 413-528-9761

### **WHALLEY COMPUTER**

Southwick, MA 413-569-4200

## CAREER GOALS

Name: \_\_\_\_\_ High School: \_\_\_\_\_

You may already know what career you will pursue when you graduate high school or you may still be searching for a career that will fit you just right. Either way, planning now for the future is a step to fulfilling your dreams.

Reaching any career goals takes a personal commitment on your part. Every plan for tomorrow requires action today. Even if you are undecided about which career is right for you, it is a good idea to begin preparing TODAY. You can begin here:

1. I'd like to learn more about the following careers:

a) \_\_\_\_\_ b) \_\_\_\_\_ c) \_\_\_\_\_

To learn more about these careers I will:

- Research them on the Internet and at the library
- Attend Engineering Career Fairs (or related events)
- Participate in Job Shadow or Internship opportunities
- Talk with my Guidance Counselor and teachers
- Talk with my parents
- Write/call/email colleges for more information
- Talk with representatives from business and industry
- Other

2. Some of the skills that my possible career field(s) require are:

a) \_\_\_\_\_ b) \_\_\_\_\_ c) \_\_\_\_\_

3. My educational plan is to:

- Receive a high school diploma
- Join the military and go to college later
- Earn an Associate Degree (two years of college)
- Earn a Bachelor Degree (four years of college)
- Enter into an Apprenticeship program after high school

4. In order to obtain my educational goals beyond high school I will need to:

- Take high school coursework that will prepare me for college
- Take SAT's and/or ACT's
- Research colleges in school and with my parents and take college tours
- Complete college applications
- Contact a military recruiter
- Contact apprenticeship programs
- Other

## ENGINEERING SCHOLARSHIPS

American Ceramic Society <b>www.acers.org</b>	Boston Society of Civil Engineers <b>www.bsces.org/scholarship.html</b>
American Institute of Aeronautics <b>www.aiaa.org/education</b>	Institute of Electrical Engineers <b>www.ieee.org</b>
American Institute of Steel Construction <b>www.aisc.org</b>	Institute of Industrial Engineers <b>www.iienet.org</b>
American Institute of Physics <b>www.aip.org</b>	Institute of Transportation Engineers <b>www.ite.org</b>
American Nuclear Society <b>www.ans.org</b>	Mass. Assoc. of Land Surveyors & Civil Engineers <b>www.malsce.org</b>
American Society of Agricultural Engineers <b>www.asae.org</b>	NE Chapter-International Concrete Repair Inst. <b>www.ne-icri.org</b>
American Society of Civil Engineers <b>www.asce.org</b>	New England Society of Fire Protection Engineers <b>www.sfpe-newengland.org</b>
American Society of Mechanical Engineers <b>www.asme.org</b>	New England Water Works Association <b>www.newwa.org</b>
American Society of Heating, Refrigeration, and Air Conditioning Engineers <b>www.ashrae.org</b>	National Society of Professional Engineers <b>www.nspe.org/scholarships</b>
American Society of Naval Engineers <b>www.navalengineers.org/scholarships</b>	Society of Automotive Engineers <b>www.sae.org/students/stuschol.htm</b>
American Society of Plumbing Engineers <b>www.aspe.org</b>	Society of Manufacturing Engineers <b>www.sme.org</b>
American Welding Society <b>www.aws.org/foundation</b>	Society of Plastics Engineers <b>www.4spe.org</b>

## WOMEN AND MINORITIES IN ENGINEERING SCHOLARSHIPS

American Indian Science & Engineering Society <b>www.aises.org/scholarships</b>	National Society of Black Engineers <b>www.nsbe.org/scholarships</b>
National Action Council for Minorities in Engineer <b>www.nacme.org</b>	Society of Hispanic Professional Engineers <b>www.shpefoundation.org/scholarship-program</b>
National Assoc. of Women in Construction <b>www.nawic.org</b>	Society of Women Engineers <b>www.swe.org</b>
	Women's Transportation Seminar <b>www.wtsnational.org</b>

## COLLEGE ENGINEERING WEBSITES

SMITH COLLEGE

[www.smith.edu/engin](http://www.smith.edu/engin)

UNIVERSITY OF MASSACHUSETTS AMHERST

[www.ecs.umass.edu](http://www.ecs.umass.edu)

WESTERN NEW ENGLAND COLLEGE

[www.wnec.edu/engineering/bme](http://www.wnec.edu/engineering/bme)

Worcester Polytechnic Institute

[www.admissions.wpi.edu/academics/programs](http://www.admissions.wpi.edu/academics/programs)

BERKSHIRE COMMUNITY COLLEGE

[www.bcc.mass.edu](http://www.bcc.mass.edu)

GREENFIELD COMMUNITY COLLEGE

[www.gcc.mass.edu](http://www.gcc.mass.edu)

HOLYOKE COMMUNITY COLLEGE

[www.hcc.mass.edu](http://www.hcc.mass.edu)

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

[www.stcc.edu](http://www.stcc.edu)

## ENGINEERING CONTACTS / WEBSITES

**America's Career InfoNet**

[www.acinet.org](http://www.acinet.org)

**Association for Women in Computing**

[www.awc-hq.org](http://www.awc-hq.org)

**Association for Women in Science**

[www.awis.org](http://www.awis.org)

**Bureau of Labor Statistics**

[www.bls.gov](http://www.bls.gov)

**Discover Engineering**

[www.discoverengineering.org](http://www.discoverengineering.org)

**Engineering Girl**

[www.engineergirl.org](http://www.engineergirl.org)

**Engineering k-12 Center**

[www.engineeringk12.org](http://www.engineeringk12.org)

**Engineering Mentors**

[www.mentornet.net](http://www.mentornet.net)

**Engineering Society of Western Mass**

[www.eswm.org](http://www.eswm.org)

**Explore Career Options**

[www.careervoyages.gov](http://www.careervoyages.gov)

**Great Engineering Achievements  
of the 20<sup>th</sup> century**

[www.greatachievements.org](http://www.greatachievements.org)

**"How stuff works"**

[www.howthingswork.com](http://www.howthingswork.com)

**Massachusetts Career Information System**

[www.masscis.intocareers.org](http://www.masscis.intocareers.org)

**Massachusetts Tech Prep**

[www.techprepma.org](http://www.techprepma.org)

**National Action for Minorities in  
Engineering**

[www.nacme.org](http://www.nacme.org)

**National Assoc. of Women in Construction**

[www.nawic.org](http://www.nawic.org)

**National Society of Black Engineers**

[www.nsbe.org](http://www.nsbe.org)

**Registered Apprenticeships**

[www.doleta.gov/atels\\_bat](http://www.doleta.gov/atels_bat)

**Society for Advancement of Chicanos  
and Native Americans in Science**

[www.sacnas.org](http://www.sacnas.org)

**Society of Hispanic Professional Engineers**

[www.shpe.org](http://www.shpe.org)

**Society of Mexican American Engineers  
and Scientists**

[www.maes-natl.org](http://www.maes-natl.org)

**Society of Women Engineers**

[www.swe.org](http://www.swe.org)

**The Engineering Center**

[www.engineers.org](http://www.engineers.org)

**UMASS Multicultural Engineering Program**

[www.ecs.umass.edu/mep](http://www.ecs.umass.edu/mep)

**Women in Engineering Organization**

[www.wieo.org](http://www.wieo.org)

**Women in Engineering Programs  
& Advocates Network**

[www.wepam.org](http://www.wepam.org)

### **Books:**

*Careers In Focus, Engineering, Second Edition*; Ferguson Publishing Company, 2003

*Careers In Engineering, Second Edition*; McGraw-Hill, 2003

*Opportunities in Engineering Careers*; McGraw-Hill, 2003