



SILVER CRESCENT
• FOUNDATION •

Announcing the Ninth Annual Discover Manufacturing Design Challenge

Dear Educators:

I want to extend a personal invitation to you and your students to **Discover Manufacturing**. As you know, the Silver Crescent Foundation has promoted manufacturing vitality and career opportunities in South Carolina for a number of years. Our outreach and educational programs are designed to get people of all ages, backgrounds and educational experience to discover the many benefits our manufacturing sector provides.

We believe as students learn more about how manufacturing enhances our daily lives and discover the wonderful career opportunities available in this industry sector that they will want to pursue their studies in fields such as design and science, technology, engineering and math (STEM) so they may become the manufacturing leaders of tomorrow.

Once again, we are pleased to invite teachers and students to take part in this year's Discover Manufacturing Design Challenge. The Design Challenge supports the motivation to succeed in school by providing an exciting learning experience that has real world applications. We encourage students to use research to produce a written essay and design a creative solution to a real world problem.

THEME: Manufacturing is about making things...something new or something improved; both start with an idea. We challenge you to think; use your imagination...no limits.

Manufacturing starts with an idea; what is yours?

Students in grades 6 -12 are encouraged to participate in:

- **Middle School Tote Bag Design and Essay** – Open to all **middle school students**, research and write an essay on the theme and then provide a design.
- **High School Calendar Design and Essay** – Open to all **high school students**, research and write an essay with an idea to be presented to a South Carolina manufacturer and then provide a design entry depicting the idea in your essay. The design and essay need to be ready for presentation to a manufacturing company.

CRITERIA FOR ESSAYS AND DESIGNS:

- The essay must be no less than 500 and no more than 750 words
- The essay must be typewritten and double-spaced
- The design entry must be on 8-1/2"x11" paper
- The design must depict what you learned and wrote about in your essay
- Essays and designs must be submitted to the regional coordinator for your school
- Essays and original artwork will not be returned
- **Deadline for submission of essays and designs to the regional coordinator is February 8, 2010.** A listing of regional coordinators for essays and designs to be submitted is attached.
- All entries must be submitted using the attached entry form.

Educators are encouraged to contact the Silver Crescent Foundation at (803) 657-6183 or sharon@silvercrescentsc.org to obtain information on having a representative from a local manufacturing company speak to your students about careers in manufacturing.

Scholarships are awarded for the top essays and designs in each category: \$300 to the first place essay/design, \$200 to the second place essay/design, and \$100 to the third place essay/design. **Additionally, the school department that produces the first-place winner in each category is awarded \$200.** Awards will be made in the spring of 2010 at each of the winners' schools.

We are pleased to bring this special Discover Manufacturing program to you in cooperation with the State Department of Education's Office of Career & Technology Education. And we look forward to seeing the creative and innovative ideas your students develop as part of the Design Challenge!

Thank you for your participation and good luck to all the students entering the contest!

Sincerely,



Karen Owens
President

REGIONAL COORDINATORS

Submit your school's essays and designs with entry form to the coordinator listed below for your district/county:

Greenville School District

Dr. Marjorie Dowd
Golden Strip Career Center
1120 East Butler Road
Greenville, SC 29607
(864) 355-1576
mmdowd@greenville.k12.sc.us

Beaufort; Colleton; Hampton 1 & 2; Jasper school districts

Dave Walker
80 Lowcountry Drive
Ridgeland, SC 29936
(843) 987-8107 x 229
walkerd@bjace.org

Aiken; Allendale; Bamberg; Barnwell; Calhoun; Orangeburg counties

Denise Kearse
Lower Savannah EBA
3250 St. Matthews Road
Orangeburg, SC 29118
(803) 535-1409
kearseh@octech.edu

Fairfield; Lexington; Richland counties

Stacey Westberry
Midlands EBA
1006 12th Street
Cayce, SC 29033
(803) 739-8833
staceyw1968@yahoo.com

Chesterfield; Darlington; Dillon Florence; Marion; Marlboro Counties

Cynthia Hulon
Dillon High School
1730 Highway 301 N
Dillon, SC 29536
(843) 774-1230 x 31
hulonc@dillon2.k12.sc.us

Clarendon; Kershaw; Lee; Sumter counties

Crishell Johnson-Bass
520 Francis Marion Road
Florence, SC 29506
(843) 669-3391 x 13
cbass@pdec.net

Berkeley; Charleston; Dorchester counties

Suzi Raiford
Education Foundation
Charleston Metro Chamber of Commerce
2750 Speissegger Drive; Suite 100
Charleston, SC 29405
(843) 805-3032
sraiford@edfound.net

Greenwood; Laurens; Edgefield; Abbeville; McCormick; Newberry; Saluda counties

Linda Sheffield
Piedmont EBA
P. O. Drawer 1467
Greenwood, SC 29648
(864) 941-8431
Sheffield.l@ptc.edu

Cherokee; Spartanburg; Union counties

Kathy Edge
Upstate Regional Center
for Educational Support
210 Commerce Court
Duncan, SC 29334
(864) 573-2766
edgek@sccsc.edu

Anderson; Oconee; Pickens counties

Robbie Tweito
School District of Pickens County
1348 Griffin Mill Road
Easley, SC 29640
(864) 855-8150 x 138
robbietweito@pickens.k12.sc.us

Georgetown; Horry; Williamsburg counties

Jason Coakley
P. O. Box 1778
2200 Anthuan Maybank Drive
Georgetown, SC 29440
(843) 546-8516 x 3315
jcoakley@gh.gcsd.k12.sc.us

Chester; Lancaster; York Counties

Sharon Halsey
(803) 657-6183
sharon@silvercrescentsc.org

Suggested Links for Research

Manufacturing is Cool <http://www.manufacturingiscool.com/>

Check out all kinds of manufacturing engineering careers and get inspired to be an original thinker!

Great Engineering Achievements of the 20th Century <http://www.greatachievements.org/>

Learn how engineering shaped a century and changed the world.

Discover Engineering <http://www.discoverengineering.org/>

Learn what engineering is all about.

A Sightseer's Guide to Engineering <http://www.engineeringsights.org/>

How Stuff Works <http://www.howstuffworks.com/>

Find out how stuff works!

Women in Welding (video) <http://www.youtube.com/watch?v=ECAtTvfkr8>

ETV's knowitall.org <http://knowitall.scetv.org/careerraise/students/ms/index.cfm>

Explore the world of work will reveal numerous careers you might like to investigate.

PBS Kids <http://pbskids.org/video/index.html>

An online school readiness tool

Disney <http://corporate.disney.go.com/careers/index.html>

Project Lead The Way <http://www.pltw.org>

For students interested in engineering, biomechanics, aeronautics, and other applied math and science arenas, PLTW® is an exciting portal into these industries.

Society of Manufacturing Engineers Education Foundation <http://www.smeef.org/>

Find out about scholarships, youth programs, and the national robotics challenge

www.JobsInManufacturing.com

Advanced Manufacturing Careers <http://www.careervoyages.gov/advmanufacturing-main.cfm>

National Engineers Week Foundation

<http://www.eweek.org/AboutEngineering/AboutEngineering.aspx>

Learn more about careers in engineering and special events.

NAM (National Association of Manufacturers) <http://www.nam.org/>

NAM is the millions of people of make things for you.

DISCOVER MANUFACTURING DESIGN CHALLENGE

(Complete this form and include with the design package prior to submission)

Student's Name: _____

Grade: _____

School: _____

School Address: (include zip code) _____

School County: _____

School Telephone #: _____

Teacher's Name: _____

Principal's Name: _____

School Superintendent Name: _____

Superintendent's Address: (include zip code) _____

Parent's Name(s): _____

Home Address: (include zip code) _____

Home Telephone #: _____

Email address: _____

Regional Contact Name: _____