



# Badger State Science and Engineering Fair Award List – 2016

**Awards will be divided between team members**

<b>Category Awards</b>				
<b>Category</b>	<b>Eligibility</b>	<b>1st Place</b>	<b>2<sup>nd</sup> Place</b>	<b>3rd Place</b>
Behavioral/Social Science – As Presented by the American Quality Society	<ul style="list-style-type: none"> <li>High school student</li> </ul>	Certificate, medallion	Certificate, medallion	Certificate, medallion
Biology	<ul style="list-style-type: none"> <li>High school student</li> </ul>	Certificate, medallion,	Certificate, medallion,	Certificate, medallion,
Chemistry/Biochemistry	<ul style="list-style-type: none"> <li>High school student</li> </ul>	Certificate, medallion,	Certificate, medallion,	Certificate, medallion,
Engineering	<ul style="list-style-type: none"> <li>High school student</li> </ul>	Certificate, medallion,	Certificate, medallion,	Certificate, medallion,
Environmental Science	<ul style="list-style-type: none"> <li>High school student</li> </ul>	Certificate, medallion,	Certificate, medallion,	Certificate, medallion,
Math/Computer Science	<ul style="list-style-type: none"> <li>High school student</li> </ul>	Certificate, medallion,	Certificate, medallion,	Certificate, medallion,
Medicine/Health	<ul style="list-style-type: none"> <li>High school student</li> </ul>	Certificate, medallion	Certificate, medallion	Certificate, medallion
Physics	<ul style="list-style-type: none"> <li>High school student</li> </ul>	Certificate, medallion,	Certificate, medallion,	Certificate, medallion,

## Specialty Awards

**The number of specialty awards for each project is limited.**

**Check the Specialty Award Selection Form Under the Student tab, Getting Started.**

<b>Specialty Award</b>	<b>Criteria</b>	<b>Eligibility</b>	<b>1st Place</b>	<b>2<sup>nd</sup> Place</b>	<b>3rd Place</b>
Alpha Chi Sigma	Top Chemistry Project	<ul style="list-style-type: none"> <li>High School Student</li> </ul>	Cash Award & Certificate		
American Meteorological Society	Achievement for Creative Scientific Endeavor in Atmospheric and related Oceanic & Hydrologic Sciences	<ul style="list-style-type: none"> <li>Atmospheric and related Oceanic &amp; Hydrologic Sciences</li> <li>High School student</li> </ul>	Certificate	Certificate	



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American Psychological Association (APA)	Outstanding research in Psychology under the category of Behavioral and Social Sciences.	<ul style="list-style-type: none"> <li>Behavioral/Social Science Psychology project</li> <li>High school student</li> </ul>	Certificate		
The American Society for Clinical Laboratory Science	Awarded to the project that best displays proper laboratory procedures. Emphasis is placed on experimental thoroughness, attention to scientific process detail and safety	<ul style="list-style-type: none"> <li>High school student</li> </ul>	Certificate Cash award		
ASM International Materials Foundation	Materials – related concepts, demonstration of structure, processing, properties, performance relationships. Clarity of methods, aesthetics and presentation.	<ul style="list-style-type: none"> <li>Project in Materials</li> <li>High school student</li> </ul>	Medallion and Certificate		
Association of Women Geoscientists (AWG)	High standard of innovativeness and scientific excellence in the geosciences. Special considerations given to projects that increase the public awareness of the geosciences, illustrate the inter-disciplinary nature of the geosciences, or promote the sensitivity to the earth as a global system.	<ul style="list-style-type: none"> <li>Project in geosciences</li> <li>High school <b>female student</b> only</li> </ul>	Certificate		
ASU Walton Sustainability Solutions Initiative	Celebrating students who are social entrepreneurs, inventors, innovative designers, and creative thinkers and projects that bring a fresh perspective to sustainability problems.	<ul style="list-style-type: none"> <li>High School Student</li> </ul>	Certificate Student will also be nominated for the Grand Prize- a trip to the 2016 Sustainability Solutions Festival in AZ	Certificate Student will also be nominated for the Grand Prize- a trip to the 2016 Sustainability Solutions Festival in AZ	
CH2M Hill Award for the Best Environmental Engineering Project	For the project that best applies the principles of Civil or Environmental Engineering. Examples: Planning, design and construction of environmental improvements, i.e. pipeline, sewers, roads	<ul style="list-style-type: none"> <li>Projects in either Civil or Environmental engineering</li> <li>High school student</li> </ul>	Environmental Project: Cash award to be divided between team members		



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	and bridges. Environmental improvements may include water and waste water treatment, ground water, air quality or wetlands management.				
GENIUS Olympiad	High School Science Fair project on global environmental issues, quality science on topics of human ecology, resources and energy or ecology and biodiversity.	<ul style="list-style-type: none"> <li>• High school project focusing on Environmental issues</li> <li>• High school student</li> </ul>	Compete at the GENIUS Olympiad National competition. Winner is responsible for transportation. Accommodations provided. Winners receive Certificates		
Intel Excellence in Computer Science Award	To encourage increased participation on Computer Science, an important source of innovation for the 21 <sup>st</sup> century.	<ul style="list-style-type: none"> <li>• Computer Science project</li> <li>• High school student</li> </ul>	Certificate and \$200 cash award		



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<b>I-SWEEEP.</b>	For an exceptional Energy, Engineering, or Environment Project. More information at ISWEEEP.org	<ul style="list-style-type: none"> <li>• High school student</li> <li>• Energy, Engineering, and Environment) Project</li> </ul>			
<b>Ralph L. Jaeschke Excellence in Engineering Award</b>	For an engineering project exhibiting excellence in engineering principles.	<ul style="list-style-type: none"> <li>• Engineering project</li> <li>• High school student</li> </ul>			
MacGyver Award from STI Engineering & American Science and Surplus	For the most creative use of an item or material in an application for which it was never intended by the manufacturer	<ul style="list-style-type: none"> <li>• All Projects</li> </ul>	Certificate, \$100 Gift Card to American Science & Surplus, catalogue	Certificate, \$100 Gift Card to American Science & Surplus, catalogue	
MU Alpha Theta	The most challenging, original, thorough and creative investigation of a problem involving modern mathematics. (The project does not have to be entered into the math category.)	<ul style="list-style-type: none"> <li>• Mathematics project</li> <li>• High school student</li> </ul>	Certificate		
<b>NASA Earth System Science Award</b>	Best project with an Earth Systems perspective.(Earth Systems considers interactions between the atmosphere, hydrosphere, geosphere, pedosphere, biosphere, magnetosphere etc. as well as the impact of human societies on these components.	<ul style="list-style-type: none"> <li>• All Projects</li> </ul>			
National Oceanic and Atmospheric Administration (NOAA)	"Taking the pulse of the planet." General award whose research emphasizes NOAA's mission to understand and predict changes in the earth's environment and conserve and manage coastal and marine resources.	<ul style="list-style-type: none"> <li>• Environmental changes project.</li> <li>• High School student</li> </ul>	Certificate, medallion, and letter		



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Office of Naval Research (U.S. Department of the Navy/Marine Corps)	Project evaluated on scientific approach, original notebook, thoroughness, ingenuity & creativity, clarity, skill and student advancement in science. What the student learned about the subject and the process, their display exhibit, intelligent discussion and originality.	<ul style="list-style-type: none"> <li>• Project process focused</li> <li>• High School Student</li> </ul>	Certificate, award letter, gift card and medal.	Certificate, award letter, gift card and medal.	
RICOH Sustainable Development Award	Have principles and technical innovations that offer the greatest potential for increasing our ability to grow environmentally friendly and socially responsible businesses. Protect the environment, prevent pollution and use all resources in a sustainable manner	<ul style="list-style-type: none"> <li>• Environmentally focused project</li> <li>• High school student</li> </ul>	Certificate		
Society for In Vitro Biology (SIVB)	Eleventh Grade student exhibiting in the areas of Plant or Animal in In Vitro Biology or Tissue Culture.	<ul style="list-style-type: none"> <li>• Plant or animal In vitro biology project</li> <li>• High school Junior (11<sup>th</sup> grade)</li> </ul>	Certificate		
International Society for Optics and Photonics (SPIE)	Scientific research and engineering applications of Optical, Photonic Imaging and Optoelectronic technologies. .	<ul style="list-style-type: none"> <li>• Must apply optics or photonics related technology or techniques. Abstracts judged.</li> </ul>			
Stockholm Junior Water Prize (3)	Improvement of the quality of life through water quality; water resources management; water protection or water and waste water treatment. Relevance: on originality, methodology and approach, subject matter knowledge and ingenuity. Open to theoretical and applied science-based projects.	<ul style="list-style-type: none"> <li>• Water Science Project</li> <li>• High School student</li> <li>• Student must submit research paper ASAP after State Fair</li> </ul>	Certificate, Nomination for the state SJWP Competition (Must enter on-line by April 15, 2015.) - 3 Awards Available		



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United States Air Force	To encourage studies in Math, Science and Engineering. Look for projects that could have some Air Force applicability.	<ul style="list-style-type: none"> <li>• Math or science project with Air force applicability</li> <li>• High School student</li> </ul>	Certificate and technology supply award  (Four awards available)		
U.S. Metric Association	Project must involve a significant amount of quantitative data or measurements which best use the SI Metric System for those measurements.	<ul style="list-style-type: none"> <li>• Project containing Quantitative data measurements</li> <li>• High School student</li> </ul>	Certificate		
Wisconsin Young Scientist Award	To the student whose project most promotes scientific progress in Wisconsin with a Wisconsin viewpoint, current Wisconsin topic, or Wisconsin natural resource.	<ul style="list-style-type: none"> <li>• Wisconsin viewpoint, Wisconsin Natural Resource, or current Wisconsin topic (environmental, economic, or scientific)</li> </ul>			
Yale Science & Engineering Association, Inc.	The most outstanding eleventh grade exhibit in Computer Science Engineering, Physics or Chemistry.	<ul style="list-style-type: none"> <li>• Computer Science, Engineering, Physics or Chemistry project</li> <li>• High School Junior (11<sup>th</sup> grade)</li> </ul>	Certificate & Medallion		

**BEST of Fair**



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Best-of-Fair	Criteria	Eligibility	1st Place	2nd Place	3rd Place
Badger State Science & Engineering Fair	Best category project and presentation, thoroughness of study, and knowledge of project process and application	Category Place winner High school student	Travel & Lodging paid trip to ISEF for student	Travel & Lodging paid trip to ISEF for student	

## Grand Awards

Grand Awards	Criteria	Eligibility	1st Place		
Marian University Scholarship, 4 Years	To the student whose project best evidences scientific processes	Category Award Winner	\$30,000	\$24,000	\$24,000
MSOE Summer Camp	The MSOE Future Engineer Award will be awarded to the student who best highlights the design process in their project.	Students currently in 9 <sup>th</sup> , 10 <sup>th</sup> , or 11 <sup>th</sup> grades	Full scholarship to attend one of MSOE's residential summer programs in the student's chosen area.  Value \$750.	Full scholarship to attend one of MSOE's residential summer programs in the student's chosen area.  Value \$750.	



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Stan Jaskolski Engineering Scholarship	To the Junior or Senior Student with the project that best evidences engineering principles	Engineering project by a 11 <sup>th</sup> or 12th grade student who plans to attend Marquette College of Engineering in the Fall of 2015 or 2016.	Scholarship \$3,000		
Philip Streich Memorial Award	An award focusing on positive environmental impact projects, especially those that mitigate climate change.	All BSSEF Fair participants	Certificate \$100 monetary award Copy of the book "Science Fair Season" by Julie Dutton		