

# Example Nomination Form: QCESC Awards

Date:

Category (select one):

- Junior Engineer of the Year Award** (less than 36 years old on December 31, 2015)
- Junior Scientist of the Year Award** (less than 36 years old on December 31, 2015)
- Senior Engineer of the Year Award** (36 years or older on December 31, 2015)
- Senior Scientist of the Year Award** (36 years or older on December 31, 2015)
- Lifetime Achievement Award**
- STEM Teacher of the Year Award**

Nominee Information:

<b>Name:</b> Outstanding Nominee	<b>Employer:</b>
<b>Job Title:</b>	<b>E-mail Address:</b>
<b>Business Phone:</b>	<b>Home Phone:</b>
<b>Business Address:</b>	<b>Home Address:</b>
<b>Birth Date (Engineer/Scientist Awards Only):</b>	

**Citation** (50 word maximum) that describes the nominee's qualifications and merit for the award. This should be in third person and will be used with the press release:

Ms. Nominee is an industry expert in the operation and maintenance of contaminated air monitoring systems. She pioneered the use of military grade equipment to drive improvements in maintenance costs, equipment reliability and analytic accuracy.

**Education** (include degrees, dates, colleges and majors):

BS, Electrical Engineering, 2000, University of Iowa

MS, Agricultural Engineering, 2005, University of Illinois at Urbana-Champaign

**Work Experience** (includes dates, titles, companies/universities and synopsis of responsibilities. Key focus of information should be accomplishments/results instead of time periods positions were held)

April 2009 – Present: Product Safety and Compliance Engineer, xxxxxx Product Development Center

- Managed environmental programs ensuring that the facility complied with all governmental regulations. During this time the facility received the 2012 Enterprise Environment and Energy - Stewardship award.

April 2001 – April 2009: Combine Electrical Systems Engineer, xxxxxx Product Development Center

- Led team that did a complete redesign of the wiring harnesses for a new machine program resulting in four U. S. patents

August 2000-April 2001: Research Engineer, yyyyyy

- Developed innovative electric drive train for yyyyyy four wheel drive loaders that received the

**CONEXPO New Concept of the Year Award**

**Professional affiliations and activities** (include years of membership, offices/chair positions and dates):

**Tech Society A (Member 2002-present)**

- Member of 9 Tech Society A national committees, including standards and safety committees and the 2015 eWeek planning committee
- Representative for Tech Society A on several international ISO committees, including two working groups developing new safety standards
- Currently: Past Chair of Quad City Section of Tech Society A
- Served as Chair of Quad City Section for 2011-12

**Tech Society B – (Member 2007-2009, renewed in 2012)**

- Chair of Introduce a Student to Engineering Day committee

**Young Alumni Advisory Board - University of Iowa College of Engineering (Charter Member, 2007-present)**

- Provide input and advice to the College of Engineering in achieving its strategic plan and vision

**Certifications and Licenses:**

**Licensed Professional Engineer in the State of Iowa (2000-present)**

**Community Activities** (includes items related to promoting engineering/science)

**Mentor for FIRST LEGO League team (2014)**

- Encouraged school district to apply for grant to cover costs of new team
- Served as engineering mentor for a new team of 10- 5<sup>th</sup> graders
- Met with team twice weekly for 2 hour practices
- Helped recruit additional engineers to support team

**Lead, xxxxxx “Introduce a Student to Engineering Day”**

- Led team to plan events in February 2011 and February 2012
- Coordinated with Putnam Museum to host event
- Worked to obtain donations and funding for the event

## Quad City Engineering and Science Council (QCESC)

- In 2013, serving as global coordinator to help teams plan events in more than 10 locations.
- 2013 and 2014 events reached over 100 students total, with plans to grow more in 2015.

### Other (non-STEM) community activities:

#### Humane Society volunteer

- Member of planning committee for 2010, 2011, and 2012 Bark in the Park 5K race
- Race director for 2011 event.

#### 7+ year volunteer with Junior Achievement (2002-2011)

- Volunteer in classroom programs
- Assisted in recruiting classroom volunteers from xxxxxx

**Patents, Publications, or Teaching Accomplishments** (For Scientist Award nominees, provide a summary of main research accomplishments, for STEM Award Nominees, provide info on STEM related teaching accomplishments.)

### Engineer/Scientist Nominee - 5 U.S. patents:

US 4,475,775, Oct 1984, Bulldozer Track Support Roller Arrangement

US 5,597,172, Jan 1997, Sprayer Suspension and Steering,

US 6,325,396, Dec 2001, Steering Assembly

US 7,418,328, Aug 2008, Steering Logic for Self-Propelled Mower

US 7,694,946, Apr 2010, Suspension System Having Active Compensation for Vibration

### 6 Technical Papers:

ASAE Paper 69-662, Performance Tests of Rotary Tiller Blades

ASAE Paper 82-5019, Automated Simulation and Display of Mechanism and Vehicle Dynamics

ASAE Paper 86-1615, Power Train Performance in Uphill log Skidding

ASAE Paper 921586, Optimizing Dynamic Stability and Performance of Tractors with Radial Tires

SAE Paper 730693, Vehicle Mission Simulation

SAE Paper 840274, Performance Comparison of Unit Injector and Pump-Line-Nozzle Injection Systems

### STEM Nominee:

- Initiated PLTW curriculum (2005)
- Mentor for school's FLL team (2007-present) winning Iowa state title in 2009
- Coach for FIRST Tech Challenge team (2009-present)

### Previous Awards:

Tech Society A Quad City Section Member of the Year Award (2009)

Elected Tech Society A Fellow (2010) (level only held by 2 % of membership)

**Quad City Engineering and Science Council (QCESC)**

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**Nominator Information:**

<b>Name:</b>	<b>Employer:</b>
<b>Job Title:</b>	<b>E-mail Address:</b>
<b>Business Phone:</b>	<b>Relationship to Nominee:</b>
<b>Business Address:</b>	