



UNIVERSITY OF NEBRASKA-LINCOLN COLLEGE OF ENGINEERING



**The Complete Engineer Conference 2018**  
University of Nebraska-Lincoln College of Engineering  
March 2-3, 2018 | Nebraska Innovation Campus

### Call for Workshops

The Complete Engineer Conference is a unique opportunity for an estimated 100-150 students to build the transferable skills needed to succeed in the profession. The College of Engineering is calling on our industry partners to help us deliver hands-on workshops that help our undergraduate attendees build these skills.

We are seeking engaging engineering or construction professionals who are comfortable with both public speaking and activity/discussion facilitation. Each 50-minute workshop is expected to provide the student attendees with the chance to learn about *and* practice new skills. **The deadline for workshop proposals is January 12, 2018.**

Please note that the Workshop process is separate from the Sponsorship process. If you are also interested in sponsoring the conference, please visit <http://go.unl.edu/cecsponsor>. Deadline for sponsors is also January 12, 2018.

### Workshop Proposal Criteria

In order for us to provide the most transformational and engaging experience for student attendees, workshop proposals will be scored based on a rubric containing the following guidelines:

- Session topic must be clearly related to one of the Complete Engineer competencies (see next page).
- Session Outline clearly identifies hands-on activities or other interactive component during the workshop (group activity, active discussion, individual worksheets, hands-on project, etc.).
- No more than 5% (2-3 mins) of the session should introduce your company (should be clear from Session Outline). The focus should be on the competency you select.

Full A/V will be provided. You are welcome to submit multiple presentation proposals, but please choose different competencies for each. Similar competency sessions will be held at the same time.

### Proposal Instructions

1. Pick a topic you're interested in facilitating a workshop on. The best place to start is the competencies (see next page). Make sure you think of at least one hands-on activity or interactive component for your workshop.
2. Identify your co-facilitator(s) if you want to collaborate with others to facilitate a workshop.
3. Draft your session details before you get to the webform so you can save this to your computer. You don't have to put together your actual session (PowerPoint or activity materials) until after we've notified you if your session is selected.
  - a. Choose the ONE competency you will focus on (it's okay if there are small elements of the others, but please focus your proposal on
  - b. Session title (10-word limit, make the title as clear as possible about the session topic)
  - c. Session abstract (80-word limit, your abstract will be displayed in the program, so this is your advertisement for the students to choose your session. Be clear about what students will learn.)
  - d. Session outline (EX - breakdown of what you'll cover and each activity by 5-10 minute increments)
4. Visit <http://go.unl.edu/cecp proposals> to submit your proposal(s). **The submission deadline is January 12, 2018**



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## The Complete Engineer Competencies



### INTERCULTURAL APPRECIATION

Serving society requires in-depth knowledge and appreciation of the cultures, differences, and experiences that make up our world. Appreciating, understanding and accepting the collective experiences and differences of the teams we lead and populations we serve will produce better societal solutions to engineering challenges.



### LEADERSHIP

In its simplest form, leadership is about influencing others to create positive change. It is not an overstatement to say that to engineer is to lead others to a solution. Practicing engineers must lead and lend their expertise in the service of society to those engaged in the solution.



### TEAMWORK

It is rare for a practicing engineer to serve without the benefit of a team. Teams will be composed of people from all walks of life and serving many roles. Working and performing on a team is critical to providing solutions that meet the high standards of engineering service.



### SELF-MANAGEMENT

There is no doubt that the hardest person to manage is yourself. As an engineer, you will manage and lead projects, teams, organization, etc. An effective engineer must first learn to lead and manage themselves by reflecting on one's behavior and experiences, managing one's time, establishing personal goals, and handling stress.



### SERVICE & CIVIC RESPONSIBILITY

Engineering is a service profession. Engineers are charged to use their talents and gifts to solve problems that impact others. The performance and practice of engineering is an act of service.



### UNDERSTANDING OF ENGINEERING ETHICS

Engineers are expected to exhibit the highest standards of honesty and integrity. Engineers must hold paramount the safety, health, and welfare of the public. Those whom engineers serve deserve nothing less.

To read more about the Complete Engineer and the six competencies, please visit <http://go.unl.edu/completeengineer>



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### Sample Proposal

**Title** (10-word limit. Make this clearly related to your session topic.):

Engineering as a Service Profession: Impact Your Community

**Competency** (Select just ONE competency as your primary competency. Similar sessions will be held at the same times, so if you want to submit a proposal for more than one topic, select different competencies.):

Intercultural Appreciation

Leadership

Teamwork

Self-Management

✓ Service & Civic Responsibility

Understanding of Engineering Ethics

**Abstract** (80-word limit. Make this attention-grabbing to draw students to your session, and be clear about what students will learn. This abstract will be printed in the conference program if selected.):

Engineering is a profession for people, by people, and through people. If you have a passion for helping others, come learn from a P.E. and your peers on how your engineering skills can be leveraged to impact your community and communities around the world. This session will be interactive and participants will learn about the value of service as a resume-builder. Students will also learn about local and global resources to serve and improve our communities.

(76 words)

**Session Outline** (50 minutes total. Breakdown what you will cover by 5-10 min increments. Be very clear about what activity/interactive component(s) you will use or we will not be able to score your presentation.):

5 mins: Introduction of speaker, including 2-3 mins on company

5 mins: **Icebreaker activity**. Will get students into pairs to talk about why they feel service is important and talk about what service experience they have already.

5 mins: Discuss importance of volunteerism/service on a resume. Talk about what it's like when I'm hiring an intern or entry-level engineer and I see volunteer experience on the resume.

10 mins: Talk about my volunteer experience outside of work through Engineers Without Borders

15 mins: **Interactive activity**. Will break into groups of 4-5 and have each group brainstorm (1) what engineering skills they have that have potential to help their community, and (2) ideas for how they can start to make connections to volunteer using the skills they identify. Groups will report to the whole room when complete to continue collaborative brainstorming.

5 mins: Discuss resources for getting involved locally and globally. Discuss how to communicate the value of service in a job interview or in networking opportunities.

5 mins: Wrap up and take time for questions.