



NCEES

advancing licensure for
engineers and surveyors

P.O. Box 1686 (280 Seneca Creek Rd.), Clemson, SC 29633 USA T: (864) 654-6824 F: (864) 654-6033 NCEES.ORG

NEWS RELEASE

June 8, 2018

Contact: Katy Goforth

Senior Communications Specialist

kgoforth@ncees.org

N.C. State University wins 2018 NCEES Engineering Education Award

Biomedical engineering department takes \$25,000 grand prize for pediatric brain surgery project

NCEES is pleased to announce that North Carolina State University is the grand prize winner of the 2018 NCEES Engineering Education Award. The university received the award for a project completed by the UNC/NCSU Joint Department of Biomedical Engineering. The award jury met June 5, 2018, in Clemson, South Carolina, to select the \$25,000 grand prize winner.

For the department's project, *Enabling Pediatric Brain Surgery through Head Stabilization*, biomedical engineering students collaborated with clinicians and engineering professionals to design a device that allows for complete skull immobilization for pediatric patients during neurosurgery. This innovation allows for the use of neuronavigation technology, opening new possibilities for treatment in pediatric neurosurgery.

The jury praised the project for identifying a problem in need of a solution and for collaborating with biomedical engineering professionals and medical professionals.

The jury selected seven additional winners to receive awards of \$10,000 each:

- Miami University (Ohio)
Department of Chemical, Paper, and Biomedical Engineering
Design and Implementation of a Community-Driven Water System in a Rural African Village
- Seattle University
Department of Civil and Environmental Engineering
Load Rating and Repair Options for Bridge Connecting Dam and Intake Structure
- Seattle University
Department of Civil and Environmental Engineering
Replacement Design of a Culvert to Allow for Fish Passage
- University of Minnesota Twin Cities
Department of Civil, Environmental, and Geo-Engineering
Multistage Drip Irrigation System in Ethiopia
- University of Nebraska–Lincoln
Charles W. Durham School of Architectural Engineering and Construction
Children's Hospital and Medical Center Expansion

- University of Wisconsin–Madison
Department of Civil and Environmental Engineering
Interlake Lock and Boat Transfer

- University of Wisconsin–Madison
Department of Civil and Environmental Engineering
Law Park Revitalization

The NCEES Engineering Education Award recognizes engineering programs that encourage collaboration between students and professional engineers. EAC/ABET-accredited programs from all engineering disciplines were invited to submit projects that integrated professional practice and education.

A jury of NCEES members and representatives from academic institutions and professional engineering organizations selected the winners from the 97 entries. The jury members considered criteria such as

- Successful collaboration of faculty, students, and licensed professional engineers
- Protection of public health, safety, and/or welfare of the public
- Multidiscipline and/or allied profession participation
- Knowledge or skills gained
- Effectiveness of display board, abstract, and project description

Profiles of the winning submissions are available online at ncees.org/award.

ABOUT NCEES

The National Council of Examiners for Engineering and Surveying is a nonprofit organization made up of engineering and surveying licensing boards from all U.S. states, the District of Columbia, Guam, Northern Mariana Islands, Puerto Rico, and the U.S. Virgin Islands. Since its founding in 1920, NCEES has been committed to advancing licensure for engineers and surveyors in order to safeguard the health, safety, and welfare of the U.S. public.

NCEES helps its member licensing boards carry out their duties to regulate the professions of engineering and surveying. It develops best-practice models for state licensure laws and regulations and promotes uniformity among the states. It develops and administers the exams used for engineering and surveying licensure throughout the country. It also provides services to help licensed engineers and surveyors practice their professions in other U.S. states and territories. For more information, please visit ncees.org.