

## UD Students Make an Impact in Newark and the Philippines



UD Students. *Photo courtesy of the University of Delaware*

More than 60 members of the University of Delaware's Chapter of Engineers Without Borders (EWB) have worked to implement projects in communities in Newark, New Jersey and the Philippines in 2019.

In Newark, participants partnered with the University's Early Learning Center (ELC), which provides early care and education services for children and their families, to begin a re-design of its outdoor learning environment.

According to 2019 chemical engineering graduate George Wieber, the center wanted to make it more focused on child learning, development of motor skills and centered around nature-based and self-directed play. After collaborating on a master plan for the playground last year with the Departments of Landscape Architecture and Early Childhood Education, the project team kick-started their efforts by building two stages, where students can star in their own performances or seek a quiet, shaded break.

The group conducted a preliminary design phase, where the stages were modeled using laser-cut pieces of wood to better understand how the pallets would be arranged. According to Wieber, they also incorporated the feedback of the ELC's most important stakeholders, its students. Final construction this summer will incorporate ADA accessibility and shade sails.

In January, nearly 9,000 miles away from Newark in a small Filipino community called Ubujan, a team of EWB students also began construction on a gravity-fed chlorination and distribution system. The realization of nearly four years of work, the system will provide clean, reliable water to more than 1,000 people. The team also worked with an interpreter to conduct rainwater surveys among members of the local community.

[Click here](#) to read the full article from the University of Delaware.

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## **Check Out These Engineering Jobs Available in Delaware**

### **Chemical Process Engineer Lead Dentsply Sirona - Milford, DE**

The Chemical Process Engineer Lead (Plant Support) is a primary resource to optimize plant operations, resolve plant problems and enable safe production. The Chemical Process Engineering Lead works as a member of the plant support team ensuring excellence in safety, quality, operations, and maintenance. The role provides a technical direction to assist process engineering teams on daily performance improvements, equipment modifications, and upgrades, and new product qualifications and trials. The position requires that the Engineer be available to assist whenever unexpected downtime or yield losses occur.

### **Sr. Engineering Manager Dentsply Sirona - Milford, DE**

The Sr Engineering Manager:

- Plans and directs all aspects of engineering activities within the site.
- Partners with all site teams to ensure collaborative efforts at securing machine and engineering success.
- Serves as the engineering leader and technical expert for all manufacturing process at the site (Plant Support as well as strategic improvements).
- Develops and implements policies, standards and procedures for the engineering and technical work performed in the department.
- Coordinates and directs projects, making detailed plans to accomplish goals and directing the integration of technical activities.

### **Civil Engineer 1 New Castle County**

Performs mechanical engineering work in the field and office at the entrance professional level; does related work as required. **DISTINGUISHING FEATURES OF THE CLASS:** An employee in this class applies basic professional engineering knowledge and skills to all phases of mechanical/civil engineering projects in the design, planning, construction, inspection, and maintenance, primarily of sanitary sewer pump stations and

wastewater treatment facilities. Assignments afford opportunities for independent planning of work details and for some latitude in making technical determinations. Supervision and direction is received from Professional Engineers or managers who are responsible for achieving project or program goals.

Keep up with more available careers in your state on the [NSPE Job Board](#).

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## Delaware Society Names 2019 Distinguished Service Award Winner



DAPE honored Meghan Lester, P.E. was named 2019 Distinguished Service Award winner. Meghan Lester earned Bachelor's and Master's degrees in civil engineering from Lehigh University and the University of Delaware, respectively. She was issued her Delaware Professional Engineer's license in September 2004 and is also licensed in Maryland and Pennsylvania. Meghan is a Vice President with Geo-Technology Associates, Inc., responsible for managing the geotechnical department and construction observation and testing staff at the New Castle, Delaware location.

Meghan joined DAPE's Examining Committee in 2008 and co-chaired this committee for many years. Through her involvement with the Examining Committee, Meghan helped develop and refine DAPE's Continuing Professional Engineering Guidelines and volunteered many times as an exam proctor. She was elected to serve in the New Castle County seat of DAPE's Council in 2010, completing her second fouryear term in 2018. A natural mentor, Meghan has served as an ambassador for DAPE to the engineering community. She has maintained contacts with faculty at the University of Delaware and spearheaded DAPE efforts to promote professional engineering licensure to countless University of Delaware students.

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## Complete the Engineering Team With NICET Certification

In the late 1950s, as the US came to rely more heavily on machines and automation, technically skilled workers who could support the work of engineers were in high demand. In 1961, NSPE rose to the challenge by forming an organization to certify technicians and technologists.



But even though technicians have been an integral part of the engineering team and NSPE since then, that organization—the National Institute for Certification in Engineering Technologies—is not always understood by PEs. A well-attended, NSPE-sponsored webinar on May 29 provided the full picture.

During the webinar, "[Quality and Safety Through a Qualified Engineering Team](#)," NICET Communications Director Chip Hollis detailed the institute's operations and the technician's role on

the team. NICET was founded to recognize the qualifications of technicians. Its focus, Hollis explained, helps ensure a qualified engineering workforce, certifying both engineering technicians and technologists in areas such as construction materials testing, transportation construction inspection, electrical power, fire protection, and security systems.

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## Don't Miss This Upcoming Webinar



Stay current with essential professional development opportunities through NSPE webinars. Members receive a special rate on the upcoming live webinar:

On **June 26** at 2 p.m., the webinar [The Saint Joseph Water Crisis – Lessons Learned in the Age of Deteriorating Water Infrastructure](#) will focus on a water crisis in Saint Joseph, Louisiana, which lends many lessons related to the difficulties faced by small and large water systems in rural environments. In this session, David A. Martin, P.E., will present an overview of the state of the town's water system prior to and after construction, as well as an overview of the new treatment process and applicability to other aquifer systems. Additionally, participants will be presented with the lessons learned during the crisis, including regulatory involvement, use of multiple funding sources, early owner procurement of long lead time equipment, and alternate project delivery.

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## Don't Miss...

- [Exemptions to Engineering Licensure Laws](#). NSPE has updated this report, with information current as of May 2019. It is free for members.
- [Take Action on Licensure Exemption Bills](#). It's imperative that lawmakers hear from their professional engineering constituents who [support bills](#) in the US House and Senate targeting licensure exemptions in public utility pipeline work.
- [PECON at a Glance](#). Take a look at the lineup of activities and educational sessions taking place at the 2019 Professional Engineers Conference in Kansas City.

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