



DECEMBER 2019 EDITION

DEED Webinar FREE to APPA Members

Tips on Creating a Strong DEED Grant & Scholarship Application

DEED will host a webinar on **January 14, 2020 from 2-3:00 p.m. EST** to provide answers to all your questions related to DEED grants and scholarships. Join the DEED Program Director and two board directors to learn about the application process, the types of projects we fund, common application mistakes, who is eligible to apply, and tips to develop the best application possible.

The webinar will also cover how to incorporate a valuable research component into your application, as well as provide tips for smaller utilities looking to apply.

The current grant and scholarship cycle is open and will close on February 15. Your best bet is to visit the [DEED funding page](#), review the [DEED Project Database](#), and register for this free webinar today.

[Register Now](#)



DEED Webinars

A chronological listing of DEED webinars is posted for DEED member only access [here](#).

DEED webinars are provided free to DEED members. To find out if you are a DEED member, [click here](#).

The webinar speakers include:

- Michele Suddleson, DEED Program Director, American Public Power Association
- Rachel Huang, Director, Energy Strategy, Research & Development, Sacramento Municipal Utility District, CA; [DEED Board Director](#)
- Chris Roy, General Manager, Belmont Light, MA; [DEED Board Director](#)

DEED Awards: Your Utility Deserves Recognition!



DEED PUBLIC POWER
RESEARCH & DEVELOPMENT
American Public Power Association

2020 DEED AWARDS

FOR EXCELLENCE IN RESEARCH

Nominate your utility today!

#PublicPower

Take home 40th Anniversary bragging rights by earning a DEED award in 2020! Show off your innovative projects or your utility's commitment to R&D by submitting a nomination for a DEED Award. Join a select group of DEED members who have been rewarded with an [Award of Continued Excellence](#) or [Energy Innovator Award](#) over the last 40 years.

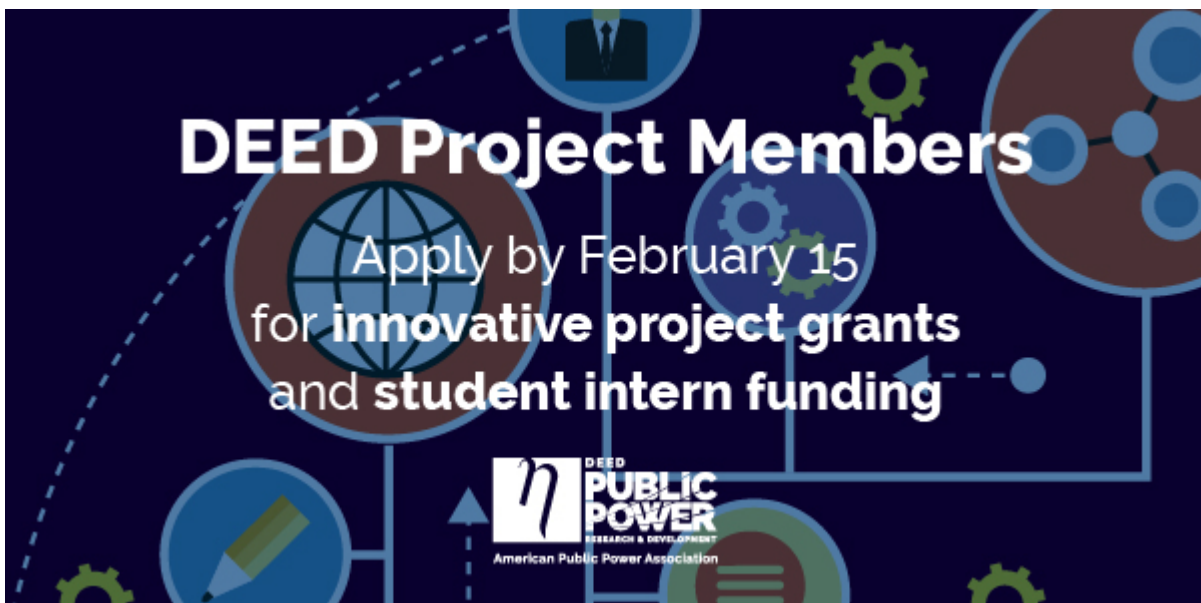
Learn more about the awards and past winners on the [ACE and EIA information page](#). Applications for the [ACE](#) and [EIA](#) are due on January 31, 2020. Questions? Contact DEED at (202) 467-2911 or e-mail DEED@PublicPower.org.

How do YOU leverage DEED?

ElectriCities of North Carolina has begun awarding an additional stipend of \$500 to any recipient of the DEED Lineworker & Technical Education Scholarship in their state. The stipend goes directly to the student for books, boots, etc. What has your utility done to leverage its DEED membership?

Answer this simple, [one question survey](#) and tell us about how you've leverage DEED in your community. In true DEED fashion, we will compile the great examples and share them with you next year.

Don't Miss Out on Applying for Funding



DEED Project Members

Apply by February 15
for innovative project grants
and student intern funding

DEED PUBLIC POWER
RESEARCH & DEVELOPMENT
American Public Power Association

Make 2020 the year you try that new project idea or innovative upgrade. Take advantage of DEED opportunities and **apply for up to \$125,000 in [utility grants](#) or \$4,000 for an [intern](#) by February 15th**. For more information, view [DEED's funding page](#).

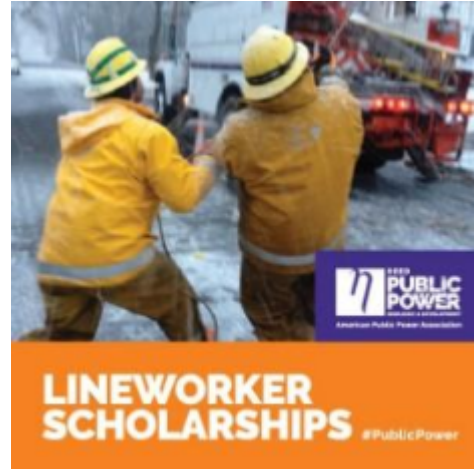
Want to start an application right away? Email DEED@PublicPower.org or call **202-467-2911** for assistance.

Share these Videos: Build Your Workforce

This year the Association interviewed public power employees to hear about their experiences working in the industry, why they recommend it, and how the work has affected their lives.

[Share these videos](#) at your local community colleges, 4-year colleges, tech & lineworker schools, and grade schools and get your best & brightest into public power careers.

Take a moment to email DEED@PublicPower.org with your local school contacts that can benefit from [DEED's scholarships](#).



Dig Deeper with DEED: Cyber Security

This month we are highlighting cyber security projects. Considering a DEED grant or scholarship involving this topic? Related projects include:



- Kansas Municipal Utilities' completed grant, [Public Utility Vulnerability Assessment Checklist and Mitigation Guidance Manual](#)
- APPA's current grant, [Deployment of Cyber Security Solutions](#)
- APPA's completed grant, [Cyber Smart Grid Essentials - A Public Power Primer](#)
- Northern California Power Agency's two-part internships, [Cyber Security Incident Response Toolkit](#) and [Cyber Security Internship](#)
- Bryan Texas Utilities' completed research grant, [Risk-Aware Testing and Management of Synchronphasor Systems in Electric Power Grids](#)

Help us deliver content you want - Take Our Survey!

As we continue our monthly *Dig Deeper with DEED* segments, we need to hear what topics are most important to you! Tell us what topics you want to read more about by [clicking here](#).

DEED Scholarships Approved for Fall 2019 Cycle

Following up on our November issue of the DEED Digest, below are the fourteen scholarships approved by

the DEED Board after the fall meeting in Knoxville, TN. The Board approved seven lineworker & technical education scholarships, one student reach grant, and six student internships. Read about the internships on the [DEED Project Database](#) to inspire your next intern application!

Lineworker & Technical Education Scholarships:

- **Ayden Salazar**, University of California, Berkeley; Silicon Valley Power, CA
- **Blake Rose**, University of Washington; Silicon Valley Power, CA
- **Curtis Haley**, Washington State University; Tacoma Power, WA
- **Jeffrey Petrillo**, North Carolina State University, North Carolina State University FREEDM Systems Center, NC
- **JT Gengler**, Mitchell Technical Institute, Omaha Public Power District, NE
- **Kyle Haas**, University of California, Berkeley; Silicon Valley Power, CA
- **PJ Bundy-Wurtz**, University of Wisconsin, Stout; River Falls Municipal Utility, WI

Student Internships:

- CS-2278: Business Systems Intern, Municipal Energy Agency of Nebraska, NE [READ MORE](#)
- CS-2280: Electrical Engineering Internship, Idaho Falls Power, ID [READ MORE](#)
- CS-2281: Economic Development Internship, Electricities of North Carolina, Inc., NC [READ MORE](#)
- CS-2282: GIS Implementation and Application, Beaches Energy Services, FL [READ MORE](#)
- CS-2283: GIS Intern, Zeeland Board of Public Works, MI [READ MORE](#)
- CS-2284 Electrical Internship, Village of Morrill, NE [READ MORE](#)

Student Research Grant:

- CS-2285: PV Generation, EV & Stationary Battery Optimal Control & Management in Distribution Grids, Milad Soleimani; Bryan Texas Utilities, TX [READ MORE](#)

Recently Completed Projects

One grant and four scholarships wrapped up in the month since our last newsletter. Visit the [DEED Project Database](#) for a repository of hundreds of outstanding research projects funded by DEED. Learn what other public power utilities like yours have done. Discover how you can replicate or improve on the success of projects completed by your peers. Get ideas for your own projects and apply for DEED co-funding with a DEED grant.

G-411 Increasing Low-to-Moderate Income Household's Access to the Benefits of Rural Public Power Community Solar Programs

Community solar programs have emerged to provide residents and businesses access where individually owned systems face barriers. **WPPI Energy** and Chart House Energy identified strategies to cost effectively increase participation of low to moderate income (LMI) households in public power community solar programs. The research involved qualitative interviews, focus groups, a survey to evaluate community interest and participation rates, and a cost-benefit analysis of various program features including demand-side energy efficiency options. The team successfully created an inclusive community solar program and Excel based tool to determine a cost-effective community solar project scale. Learn more about the project and read the final report and deliverables here: [READ MORE](#)

S-257 Electric Vehicle Load Prediction and Charging Scheduling for Grid Services and Cost Reduction

Burbank Water & Power sponsored Behna Khaki's student research grant focused on EV loads. Behnam worked to propose an effective method for modeling the uncertainty in load demand, and to design an efficient optimization method for EV load accommodation in distribution

S-258 Infrared Inspection, GIS Data Processing and Asset Management

Beaches Energy Services hired an intern, Nahum Michel, student at University of North Florida, to assist in the improvement of BES' structure and data processing of their GIS. The project focused conducting research on improving data processing and asset management for BES, as well as assessing different alternatives for improving the GIS system.

feeders. The method includes load clustering and was verified using a BWP feeder. Learn more about the project and read the final report and abstract here: [READ MORE](#)

S-259 Energy Efficiency Services Outreach Coordinator for Retail Customer Relations

Illinois Municipal Electric Agency hired intern Lexi Yoggerst, student at University of Illinois-Springfield, to develop and disseminate the *IMEA Public Outreach Playbook* to its members. The *Playbook* is a guide, a plan, and a tool to help IMEA Member utilities reach out to their utility's customers on a regular basis with positive messaging on social media, such as APPA's [#communitypowered](#) awareness campaign. She also helped develop materials related to the launch of IMEA's Electric Vehicle Initiative. Learn more about the project and read the final report and deliverables here: [READ MORE](#)

Nahum used ArcMap to store assets within a geodatabase for BES. Learn more about the project and read the final report and abstract here: [READ MORE](#)

S-260 Electrical Engineering Intern

Kaukauna Utilities hired an intern, John Vander Wyst from Northern Michigan University, to gather information and create a proposal for a solar array to be installed on KU's facility roof. He was also tasked with using GIS to update one-line prints using computer aided design. The outcome was an application which allows field technicians to simply and efficiently report findings directly through the ArcGIS Collector application. Kaukauna was also awarded a grant from WPPI to instal the solar array. Learn more about the project and read the final report and abstract here: [READ MORE](#)

Contact

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