



EFFICIENT AND HEALTHY SCHOOLS

U.S. Department of Energy and Lawrence Berkeley National Laboratory
2022/23 Efficient and Healthy Schools Webinars
Lighting Retrofits

October 27th 10:00 am Pacific | 1:00 pm Eastern

[Registration Link](#)

Contact: EHSC@lbl.gov

Webinar Objectives

- Jordan Shackelford from LBNL will discuss the campaign's [second round recognition](#) program and projects relevant to lighting, and will also highlight useful lighting standards, tools, and guides for schools, such as lighting resources from the [Better Buildings Initiative](#). Jordan will also discuss measurement and verification, along with research that highlights the health and safety benefits of lighting retrofits in schools.
- Axel Pearson from PNNL will discuss DOE's [Integrated Lighting Campaign](#) and how schools can be a part of this campaign, highlighting resources and providing an in-depth example of an innovative lighting project at Holt Public Schools, who was recently recognized by the campaign. A participant from the project will discuss considerations for schools who are getting started with lighting retrofits and related projects.

Webinar Agenda

Time	Title	Speakers
Welcome and Opening Remarks		
[5 minutes] 10:00 - 10:05 AM PT 1:00 - 1:05 PM ET	-Introduction to the Efficient and Healthy Schools Campaign (EHSC) -EHSC 2022/23 new recognition program	Alexandra (Allie) Johnson, Senior Research Associate, Lawrence Berkeley National Laboratory (LBNL)
Presentations: Lighting Retrofits		
[20 minutes] 10:05 - 10:25 AM PT 1:05 - 1:25 PM ET	-Lighting projects related to the EHSC 2023/23 new recognition program -Standards, tools, and guides for schools -Health and safety benefits	Jordan Shackelford, Principal Scientific Engineering Associate, LBNL
[20 minutes] 10:25 - 10:45 AM PT 1:25 - 1:45 PM ET	-DOE's Integrated Lighting Campaign and school involvement -In-depth example of a lighting project at Holt Public Schools -Brief Q&A with project participant	Axel Pearson, Energy Efficiency Project Manager, Pacific Northwest National Laboratory (PNNL)
Q&A and Closing		
[10 minutes] 10:45 - 10:55 AM PT 1:45 - 1:55 PM ET	Q&A section: -Please use chat or Q&A function -Direct all unanswered questions to EHSC@lbl.gov	Jordan Shackelford and Axel Pearson
[5 minutes] 10:55 - 11:00 AM PT 1:55 - 2:00 PM ET	Closing remarks: -Helpful resources for school districts -Next webinar, Nov 15th: Decarbonization	Allie Johnson

Speaker Bios



Jordan Shackelford has over 10 years of experience in emerging lighting and controls technology evaluations. He works in LBNL's FLEXLAB on experimental design, testing, and analysis, and installs and manages lighting, controls, and monitoring systems in the lab. Jordan has worked on field demonstration projects for interior commercial LED retrofits and networked controls with auto-DR, and on early utility-funded LED street lighting and advanced controls research. He holds a Masters Degree in Civil and Environmental Engineering from Stanford's Atmosphere / Energy Program.



Axel Pearson joined PNNL in 2022 as an Energy Efficiency Project Manager, supporting the Energy Efficiency Technologies team with a focus on energy efficient lighting and controls. Prior to PNNL, Axel worked for the DesignLights Consortium leading the Solid-State Lighting Program and developing DLC's technical requirements. Axel also has experience with codes and standards development, lighting auditing, utility incentive programs, and energy education. Axel holds a bachelor's degree from the University of Colorado in Environmental Studies, a master's degree in Environmental Management from the University of San Francisco and is Lighting Certified by the NCQLP.



Alexandra (Allie) Johnson is a Senior Research Associate in the Indoor Environment Group at Lawrence Berkeley National Laboratory. She has a BSChE in Chemical Engineering and a Masters of Public Health with an emphasis in epidemiology and biostatistics. Alexandra previously worked as an engineer in industry and energy before moving into research within the field of environmental health sciences. While at Berkeley Lab, her focus has been on air quality in various indoor environments.