

Building a Green Texas Program with our Youth

June 16, 2022

CELC City Efficiency
Leadership Council



About SPEER:

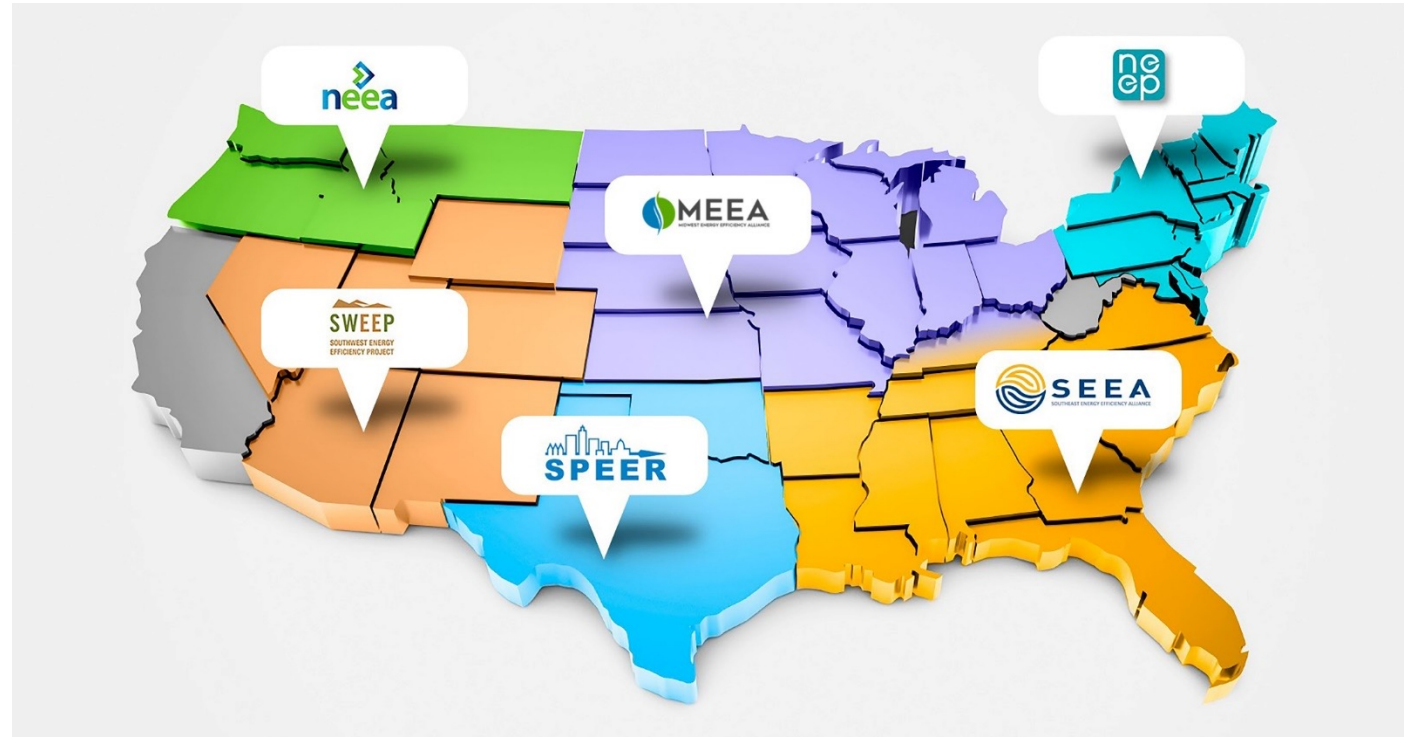
SPEER's mission is to accelerate the adoption of advanced building systems and energy efficient products and services in the South-central US.

Our Work

- Policy
- Building Codes
- High Performance Buildings
- Local Government

Our Members

- Advocacy Orgs
- Cities
- ESCOs
- Manufacturers
- Trade Associations
- Utilities





What is the City Efficiency Leadership Council (CELC)?

A collaborative network of Texas cities, school districts, and other government entities engaged in partnership and resource exchange in an effort to expand the adoption of energy management best practices in the public sector.

How can CELC support energy management in my city?

Regional Roundtable Luncheons, Webinars, City Best Practices Case Studies, City Efficiency Toolkit, Local Government Energy Reporting Assistance, Portfolio Baselineing and Benchmarking, Technical Support

How can my city get involved?

Contact SPEER to set up a brief intake interview OR Attend a regional roundtable luncheon

Who can join CELC?

Open to staff of any public jurisdiction including city and county governments, public school districts, and other publically funded entities.

Speaker: Elizabeth Stephens , Program Manager
EcoRise



EcoRise & Building a Green Texas

Increasing Representation in the Fields of Sustainability
and Green Building

June 2022 - CLEC



The University of Texas at Austin
School of Architecture

Your Presenters Today



Brittany Jayroe

EcoRise
Director of Youth Programs



Elizabeth Stephens

EcoRise
Building a Green Texas
Program Manager

EcoRise — Education For A Resilient Future

EcoRise mobilizes a new generation of leaders to design healthy, just, and thriving communities for all. We work at the intersection of sustainability education, climate resilience, and environmental justice by elevating youth voices and advancing student-led solutions to real-world challenges. As a 501(c)(3) non-profit organization, we offer a range of curricula and programs for students, teachers, school districts, and partners, that are designed to advance environmental literacy, support sustainable schools, and promote equitable access to green career pathways.

Building a Green Texas, CLEC, June 16, 2022



CURRICULA & PROGRAMS

Our train-the-teacher model and online platform provide K–12 curricula, professional development, and community resources to educators around the world. EcoRise programs develop the next generation of creative problem solvers by offering teachers and students the tools, community, and inspiration needed to design, cultivate, and embrace sustainable solutions to environmental and social issues in their communities.





Green Building

Lessons for a Sustainable Future

Facilitator's Guide



ecoRise

A U.S. Green Building Council®
(USGBC®) Education Partner

Building a Green Texas

Timeline

- 2018 – Launch: Professional Development, mentors
- 2019 – Growth: 12 states, 53 teachers
- 2020-2023 – Building a Green Texas programs

Professional Development

- Building a Green Texas programs

Curriculum

- Green Building Lessons for a Sustainable Future
- Sustainable Intelligence
- LEED certification preparation and support

Instruction, Assessment & Internships

- Project-based and self-paced options
- Showcases
- Student Innovation Fund (classroom grants)
- LEED Green Associate certification opportunity



Goals of a LEED project:



Building a Green Texas - program goals

01 Increase knowledge, skills, and confidence related to green building concepts

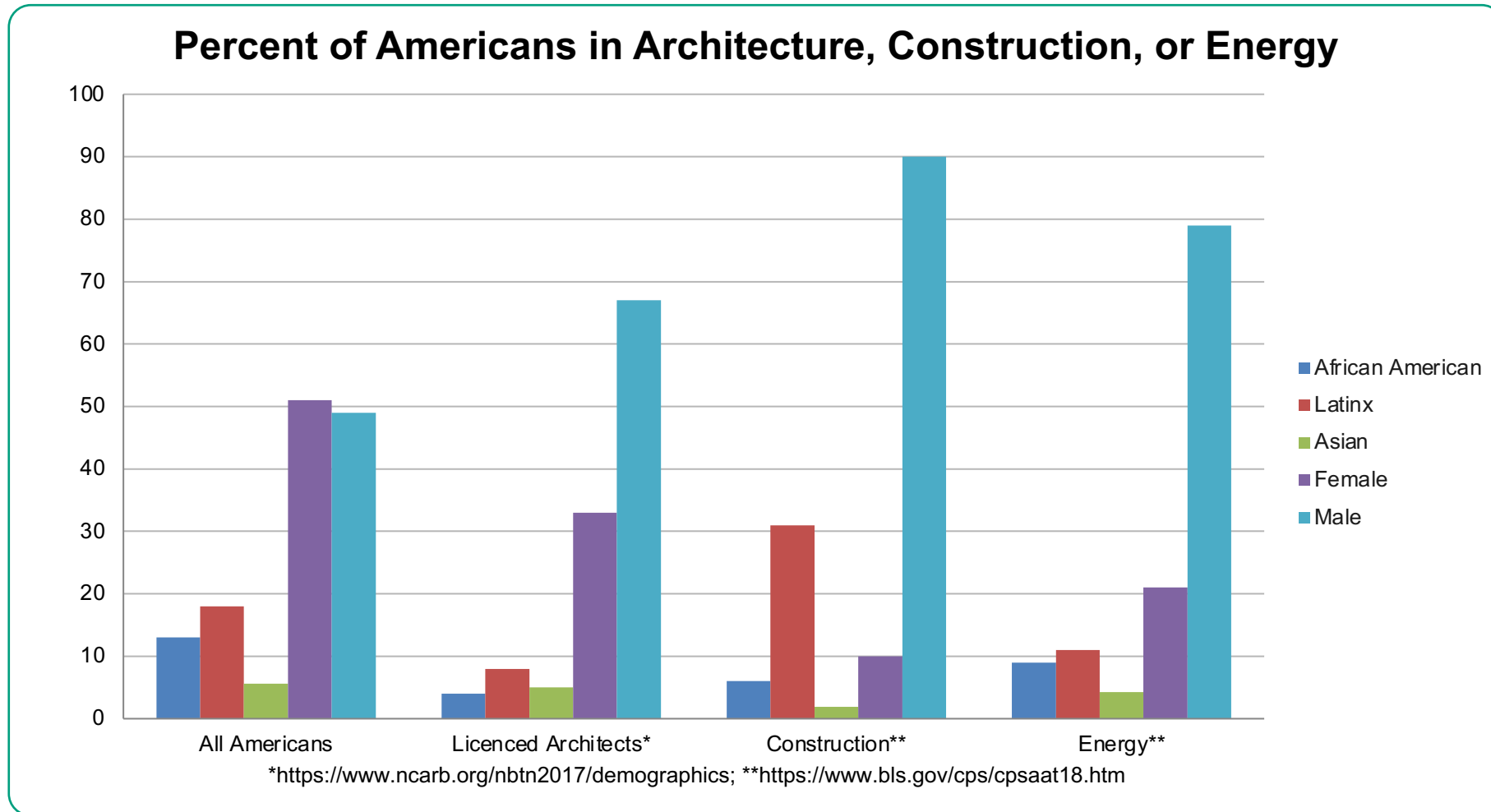
02 Provide active-learning experiences and career exposure

03 Consider scientific uncertainty, cultural knowledge, and diverse community values

04 Address the need for a more diverse workforce



Building a Green Texas - DEI



Building a Green Texas - Program Plan

Year 1: 2020-2021 School Year


- 5 schools in Central Texas (CTX)
- 5-8 Teachers
- 100-160 Students
- 4 school-year internship field experiences
- 10 paid summer internships
- 1 Student Innovation Showcase

Year 2: 2021-2022 School Year

- 9 schools: 7 CTX, 2 Gulf Coast
- 9-12 Teachers
- 180-240 Students
- 4 school-year internship field experiences
- 15 paid summer internships
- 2 Student Innovation Showcase

Year 3: 2022-2023 School Year

- 10-15 schools: 10 CTX, 5 Gulf Coast
- 15-20 Teachers
- 300-400 Students
- 4 school-year internship field experiences
- 20 paid summer internships
- 2 Student Innovation Showcases

 The picture can't be displayed.

 The picture can't be displayed.

"A Research-Practice Partnership to Advance Anti-Racist Green Building, Education, and Practice,"

by Assistant Professor Miriam Solis, Abby Randall, Deputy Director, EcoRise; and Will Davies, Ph.D. candidate, UT Austin and Policy and Data Analyst at Breakthrough Central Texas

Building a Green Texas Program - SY2021-22

❖ Educator workshops and student field experiences:

Fall Semester	Spring Semester
October 30: Module 1: Systems Thinking -Brittany Jayroe & Elizabeth Stephens	Tuesdays, 6:00-7:30pm starting January 25th -USGBC, LEED Green Associate Prep-Take-Teach
December 4: Module 3: Water Conservation -Asomgyee Pamoja & Elizabeth Stephens	February 4: Module 4: Energy & Atmosphere -Asomgyee Pamoja, Zakhia Grant, & Elizabeth Stephens
December 9: Student Field Experience to the Meadows Center, San Marcos -Brittany Jayroe & Sharon Huerta	Late March: Virtual Field Experience for Gulf Coast & Central Texas students, Microplastics with Citizen Science! -University of Texas Marine Science Institute

Recruiting **Building a Green Texas** Teachers

- CTE Directors in Austin ISD & Del Valle ISD share opportunity, focus on relevant courses
- CTE & Science teachers at Title 1 high school campuses
- Teachers were offered \$500 stipends, professional learning, access to curriculum resources, and opportunity to prepare for and attempt the LEED Green Associate Certification exam



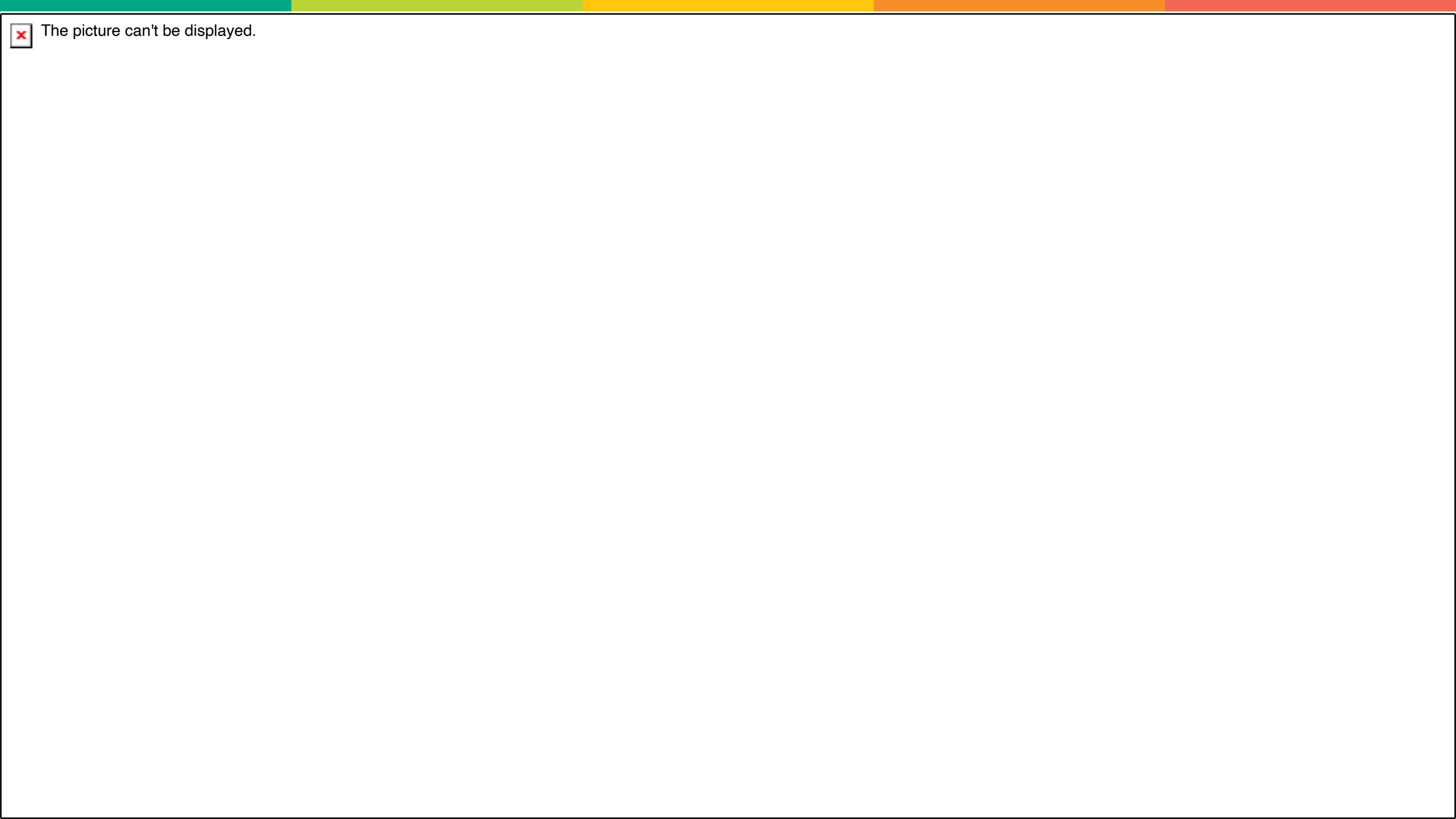
The picture can't be displayed.



The picture can't be displayed.



The picture can't be displayed.



The picture can't be displayed.



The picture can't be displayed.



The picture can't be displayed.

" I found the Greenscaping lesson was the most useful for my aquatic science classes. I have been teaching the classes about native plants, invasive species, [and] storm water runoff, the problems with lawns and rain gardens all semester. This tied the semester up nicely." –Navarro HS Science Teacher




The picture can't be displayed.



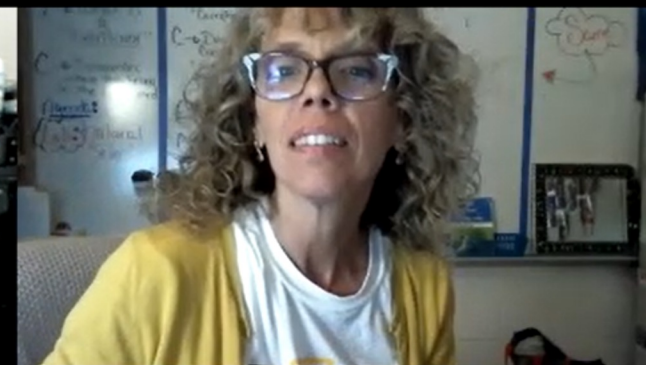
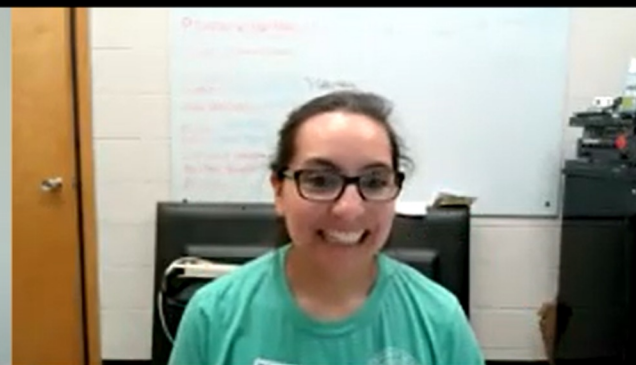
The picture can't be displayed.

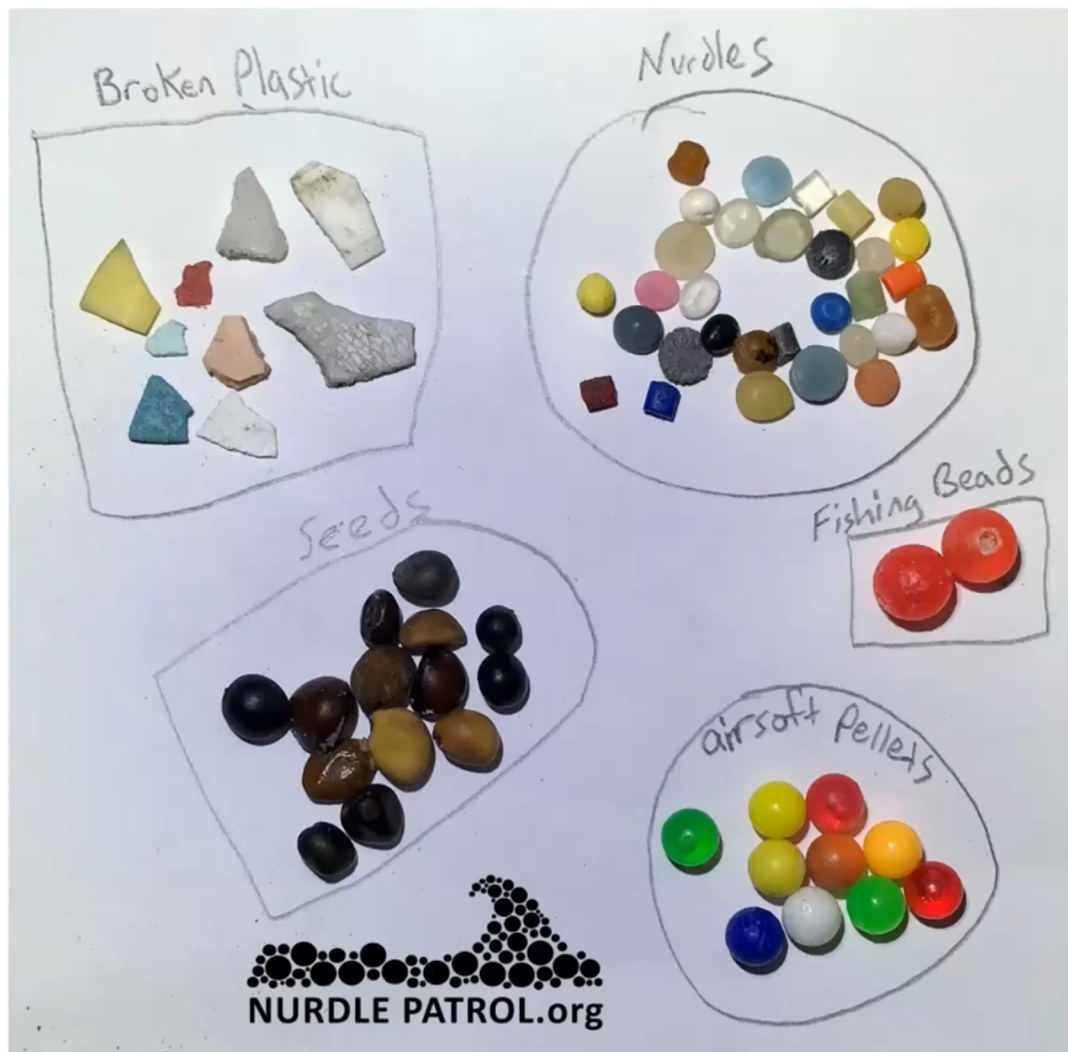


The picture can't be displayed.

 The picture can't be displayed.







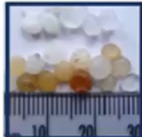
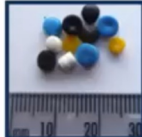

IS IT A NURDLE?

YES

These are nurdles, or pre-production plastic pellets, used by manufacturers to create new plastic products. Please count these for the hunt

KEY FEATURES OF A NURDLE:

- 2-5mm in size
- Rigid plastic
- Lenticular or disk shaped
- Clear or opaque
- Various colours


NO

These look similar but are not nurdles! Please don't count them for the hunt

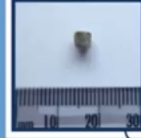
CRINOID FOSSILS

- Variable in size
- Deep ridges
- Not plastic

BIOBEADS



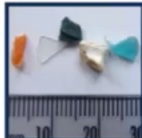
BioBeads are pellets used to help purify water. These are made of plastic but have a wrinkled or ridged surface and tend to have irregular shapes. Please let us know if you spot these!



BIOBEADS

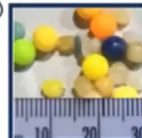
- Often black or grey
- Can be green, blue or beige.
- Wrinkle, ridge or bumpy

SECONDARY MICROPLASTICS




- Angular fragments
- Irregular shapes

BB GUN PELLETS




- Spherical
- Brightly coloured

EXPANDED POLYSTYRENE




- Spherical
- Brightly coloured

HORSESHOE CRAB EGGS



- Dark green
- Usually in clusters
- Not plastic




THE GREAT NURDLE HUNT
TAKE PART

NURDLE IDENTIFICATION CHART

RECORD THE NUMBER OF NURDLES YOU COUNT ON THE OTHERSIDE OF THIS SHEET

WWW.NURDLEHUNT.ORG.UK



Fidra

Green Careers Academy – Internship

CENTRAL TEXAS – SUMMER, 2022

EcoRise seeks innovative high school students to join our Summer 2022 Green Careers Academy (GCA) Internship cohort. GCA interns will participate in an immersive, paid summer internship experience designed to provide exposure to a wide variety of green careers, sharpen 21st Century and workplace skills, and foster connections with a network of green professionals representing a variety of sustainability focus areas like community resilience, green building, conservation, and more.



PROGRAM OVERVIEW

The Green Careers Academy Internship is a paid, 7-week, professional learning experience that offers meaningful, practical work in career fields related to sustainability.

- ✓ Stage 1 (3 weeks): As a cohort, interns will receive professional development in early career and 21st century skill building.
- ✓ Stage 2 (4 weeks): Each intern will be placed with a mentor in a local organization or company for an 80-hour internship. Interns will work on projects designed by their mentor related to a relevant sustainability topic. The summer will culminate in showcase presentations celebrating key learnings and project progress with the whole GCA internship community.



As part of her 2021 internship, Paloma J. represented the San Antonio River Foundation at the "Discover Your River" event booth.

INTERNSHIP GOALS

- 1) Increase interns' knowledge of green careers and address the need for a more diverse green workforce.
- 2) Develop early career and 21st Century skills.
- 3) Provide interns with active learning experiences with scientists, civic leaders, and green professionals as they engage in and/or design local or regional projects.
- 4) Increase interns' ability to consider cultural knowledge and diverse community values when working in the environmental sector.
- 5) Increase interns' knowledge, skills, and confidence to reason about the ways humans and nature interact through climate science, green building, and environmental justice.

COMPENSATION & EXPECTATIONS

Interns will receive a **stipend of \$2,200**, paid in two installments of \$1,100. Stipends will be issued upon successful completion of assigned activities, participation in scheduled workshops and weekly check-ins, and end-of-summer GCA showcase presentation.

ELIGIBILITY REQUIREMENTS

- 1) Enrolled in a public high school located in Central Texas
- 2) A rising junior or rising senior
- 3) Demonstrated interest in sustainability-related career pathways
- 4) Available to attend daily GCA professional development sessions (June 13th-June 24th) and work ~20 hours per week at an internship placement (June 27th-July 29th)

Q&A

Join our EcoRise newsletter to learn more.



Consider becoming a green careers mentor
and/or hosting an EcoRise intern!

Thank you!

brittany@ecorise.org
elizabeth@ecorise.org



Resources

Contact Information:

Shaun Auckland,
Local Government Program
Manager,
SPEER
sauckland@eepartnership.org

For More Information:

- SPEER [YouTube Channel](#)
- CELC Upcoming Events
www.eepartnership.org



The South-central Partnership for Energy Efficiency
as a Resource

CELC City Efficiency
Leadership Council

