

Developing Directed Energy Workforce in NM

Explora's Role

UNM Directed Energy Day
April 26, 2024



Cradle through Career STEAM Learning Campus



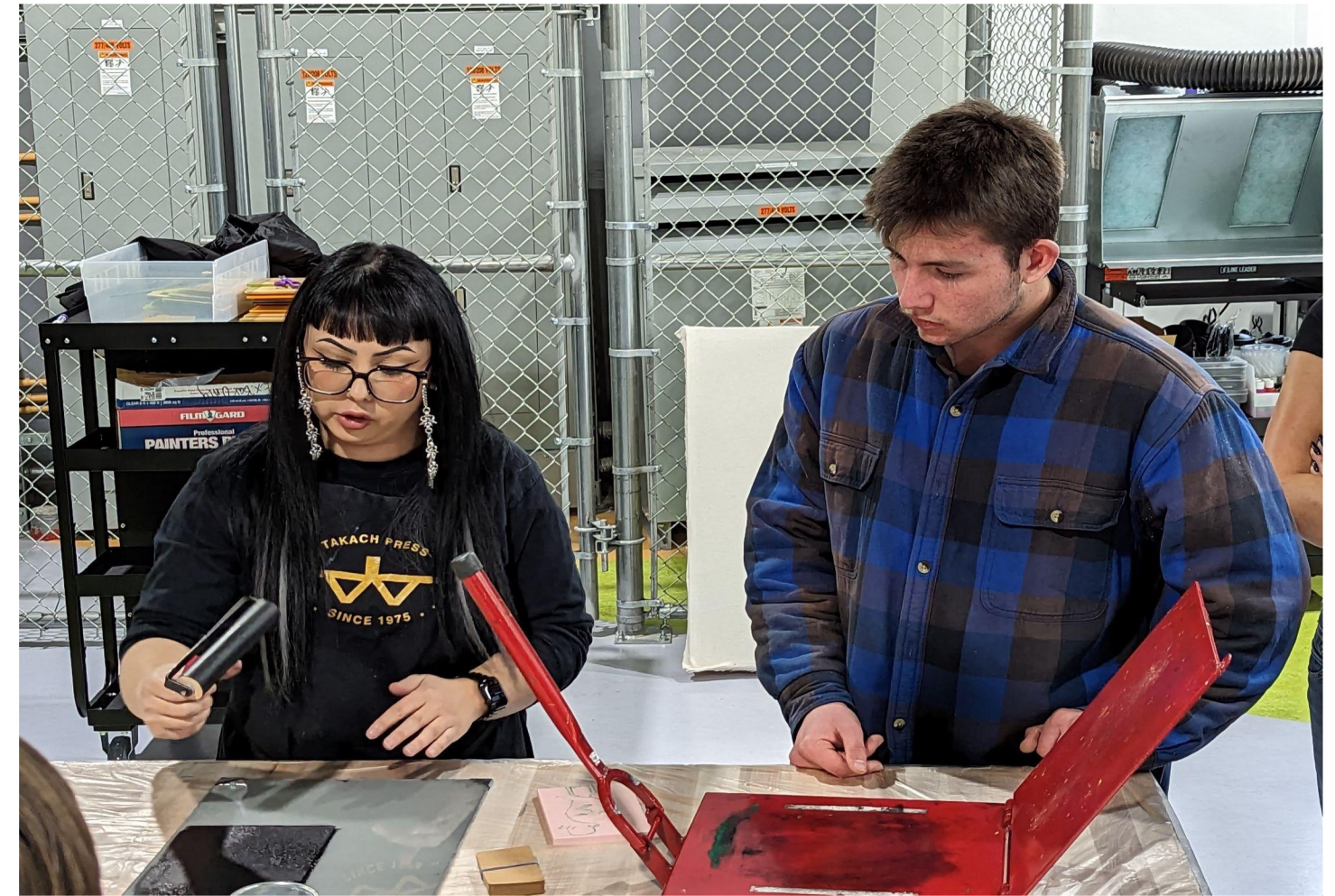


- 380,000 people served each year, including 2,800 programs to more than 100,000 students from across NM, reaching 95% of school districts
- 20,000+ free memberships provided to low-income families annually
- 6,000 students served through spring and summer camps
- 15,000 people served through Family Science Nights contract with APS Title I schools
- 2,200 teachers served through over 50 professional development workshops
- 10,000 science kits distributed around the state during COVID-related remote learning





- Over 7,600 teens served since opening in its first year
- **Design and fabrication workshops** in Makerspace. Attendance: 2,637
- **Digital media and music production programs** and open hours in the Tech Lab. Attendance: 1,033
- **Teen Science Cafés** with local STEAM professionals. Attendance: 316
- **Teen Nights** with CABQ and local high schools, including proms. Attendance: 2,194





- **Socioemotional Learning Weekly meetups**, providing mental health check-ins, often in the form of Friday “Crafternoons” in Makerspace. (Attendance: 771)
- **Entrepreneurship deep-dive camps**, providing problem-solving and innovation skills to prototype technologies for real-world scenarios; students participated in **App Contest** judged by UNMIT and AFRL. (Attendance: 212)
- **Support services** that include life-skills, financial literacy classes, FASFA instruction, test prep, aid with job applications, job preparation and digital literacy programs. (Attendance: 66)





- Reggio-inspired, museum-based early learning center
- Lab school for local higher education institutions, like CNM, providing ongoing professional development for early childhood educators and center directors from across New Mexico
- State-of-the-art facilities, like a materials-rich atelier and exhibits-filled entry plaza

Explora currently runs one pilot Brillante classroom, a licensed NMPreK classroom for 15 3- to 5-year-olds, 11 of whom are children of CNM students. It's full-time childcare, 7:30-5:30, enabling students to finish certificates and degrees.



UNMDEC-Explora Summer Internship

- 5 - 10 students
- 6 - 8 weeks in June and July
- 10 - 15 hours per week at DEC to gain real-world technical experience
 - Lab activities in cleanroom
 - Projects utilizing laser and microwave technology
- 5 - 10 hours per week at X Studio to learn workforce skills
 - Science/business communication
 - Leadership
 - Financial literacy
 - Project management
 - Museum floor facilitation
- Joint programming with AFRL STEM Scholars Camp

PAID SUMMER INTERNSHIP

at UNM Directed Energy Center and Explora's X Studio



**Does working with lasers sound interesting to you?
How about microwave technology?**

If your answer to either question is "yes," there's an opportunity this summer for you to learn from top scientists and engineers at UNM's Directed Energy Center (DEC), and get paid! Between June and July, you will be spending 10-15 hours a week to help with projects using cutting-edge laser and microwave technology. You will experience what it's like to work in a cleanroom. You also will spend 5-10 hours a week at X Studio, developing a variety of workforce skills. DEC is the only academic center in the country conducting state-of-the-art research in laser and microwave technology, so this internship will be an amazing resumé-booster and a great stepping stone for college degrees or cool careers!

No background or experience in engineering or science is required to apply for this internship. Curiosity is all you need!

Essential Information

- Start date (tentative): Monday, June 3
- Duration (tentative): 6 - 8 weeks
- Eligible ages: 16 - 22 years old

How to Apply

- Send a resumé and a cover letter to Amon Haruta (aharuta@explora.us)
- Application deadline: Tuesday, April 30



Thanks!

