

Selena Ganues

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EXPERIENCE

NNSA-IMPACT Internship Sandia National Laboratories Undergraduate R&D 06/2024 - Present

- Perform research regarding the corrosion of stainless steel used to construct spent fuel canisters
- Carry out potentiodynamic scans and microscopic analysis of stainless steel coupons exposed to atmospheric corrosion
- Study the occurrence of corrosion in regards to rolling direction of steel and elemental composition of salt deposits
- Expand an in-development corrosion database that summarizes potentiodynamic experiments carried out under various conditions and parameters

EDUCATION

Bachelor of Science in Materials Science & Engineering (MSEN), 05/2026

Texas A&M University, College Station, Texas

German Language Minor

LEADERSHIP

German Language Tutor 09/2024 - Present

- Tutor students in beginner German classes in person and online

Women in Materials Science, Treasurer 05/2024 - Present

- Manage budget for all programs hosted by the organization
- Plan youth outreach events in the community

MSEN, Ambassador 05/2024 - Present

- Host outreach events to inform prospective first-year students about MSEN
- Conduct booths at A&M engineering events

Sophomore Advisor 2023 - 2024

- Facilitated group discussion among freshman
- planned events and socials
- Managed University Honors social media
- Acclimated first-year University Honors Students.

American Institute of Chemical Engineers, Freshman Representative 2022 - 2023

- Organized socials and study sessions to encourage freshman involvement
- Informed freshman on all opportunities provided by the organization

SKILLS

Wet-lab Experience

Keyence Microscope Imaging

Potentiodynamic Corrosion Testing

Contact Profilometry

EXTRACURRICULAR ACTIVITIES/COMMUNITY SERVICE

Global Engineering Brigades 2022 - 2023

- Created a pipeline map and water tank schematic to improve water supply in a Honduran rural community
- Raised \$1000 to donate to rural community for pipeline construction