

## Jessica Elder

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### EDUCATION

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**Texas A&M University**, College Station, Texas *Anticipated Graduation: May 2022*  
Bachelor of Science in Materials Science and Engineering  
Minor in Engineering Project Management  
Corrosion Engineering Certificate  
GPR: 3.12

### EXPERIENCE

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**Barista - Starbucks** *August 2018 – Present*

College Station, Texas

- Part-time worker for the Starbucks in the Zachary Engineering Education Building.
- Dealing with high volume customer service while maintaining a strong understanding of company and customer needs

**Undergraduate Researcher – Texas A&M University** *January 2021 – Present*

College Station, Texas

- Work under a professor studying, testing, and analyzing geopolymers
- Specifically studying the use of geopolymers as soil stabilizers

**Engineering Technician - Internship – Bureau of Reclamation** *May 2020 – August 2020*

Denver, Colorado

Project Management

- Drafted project management plans
  - Organized project budgets for team with multiple disciplines
- Coatings Laboratory Work – Prepared and coated steel panel – solvent cleaning, abrasive blasting, conventional spray of 2 component coating, EIS testing, data evaluation
- Electrochemical Impedance Spectroscopy (EIS) Field Testing Research
- Investigated long-term data sets for coating systems and prepared performance template.
  - Analyzed multiple bode plots from EIS testing on different portions of a Reclamation penstock.
  - Assisted with report writing for Science & Technology Program project final report.

Publications

- Final Report “Validation of Coating Assessment for Field Impedance Spectroscopy” ST – 2020 – 1884

**Executive Officer – Local NACE Chapter – Texas A&M University** *August 2019 – Present*

- Operations and Outreach Committee

### RELEVANT COURSEWORK

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*Texas A&M University*

- MSEN 210 Thermodynamics of Materials
- MSEN 260 Structure of Materials
- MSEN 305 Kinetics of Materials
- MSEN 320 Deformation of Materials
- MSEN 440 Materials Electrochemistry and Corrosion

### SKILLS

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Python Coding | Origin Software | Word | Excel | PowerPoint | Verbal and Written Communication | Leadership | MATLAB | LabVIEW | Analytical Thinking | Project Management | Math