

# Bianca Melendez

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## SUMMARY

Recent graduate in Chemical Engineering with academic and project experience focused on environmental monitoring and remediation. Strong ability to collaborate in team settings while managing changing priorities in fast-paced environments. Consistently delivers high-quality results through effective time management and analytical skills, particularly excelling in data presentation. Ensures engagement through clear communication and insightful presentations tailored for technical audiences. Eager to contribute innovative solutions to environmental challenges and support multidisciplinary teams with actionable insights.

## EDUCATION

### Bachelor's Degree in Chemical Engineering

2026

University of Texas at Dallas GPA: 3.8

Dallas, TX

*Coursework: Thermodynamics, Fluid Mechanics, Environmental Engineering, Data Analysis*

## TECHNICAL SKILLS

- **Presentation Tools:** Microsoft PowerPoint, Google Slides, Prezi
- **Analytical Software:** MATLAB, Python, R
- **Statistical Methods:** Regression Analysis, Hypothesis Testing, ANOVA
- **Data Collection Methods:** Surveys, Experiments, Field Studies
- **Environmental Monitoring Techniques:** Soil Sampling, Water Quality Testing, Air Quality Assessment
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Reporting Tools:** Microsoft Excel, Tableau, Google Data Studio
- **Modeling Software:** AutoCAD, Aspen Plus, COMSOL Multiphysics
- **Research Methodologies:** Literature Review, Qualitative Analysis, Quantitative Analysis
- **Compliance Standards:** ISO 14001, EPA Regulations, OSHA Guidelines

## SKILLS

- Microsoft PowerPoint
- Team Collaboration
- Time Management
- Data Analysis
- Environmental Monitoring
- Analytical Skills

## EXPERIENCE

### Chemical Engineering Student

January 2025 - May 2026

University Project

Dallas, TX

Engaged actively in a capstone project focusing on developing sustainable solutions within environmental contexts. Leveraged teamwork and analytical skills to achieve project goals successfully.

- Developed a comprehensive environmental remediation plan, concentrating on sustainable engineering solutions.
- Collaborated with a five-member team analyzing data using statistical software for accuracy.
- Created impactful PowerPoint presentations demonstrating project objectives and methodologies.
- Researched chemical processes' environmental impacts, synthesizing findings into viable recommendations.
- Compiled detailed reports for project evaluation ensuring adherence to academic standards.

### Environmental Engineering Research Assistant

September 2024 - December 2025

Academic Research

Dallas, TX

Contributed to faculty-led research activities by engaging in both fieldwork and analytical tasks. Worked effectively within collaborative settings to advance project objectives.

- Assisted in pollution control technique research, enhancing publication submissions through meticulous preparation.
- Engaged in field data collection, ensuring safety regulations compliance during monitoring exercises.
- Analyzed research data using Microsoft PowerPoint to generate visually engaging reports.
- Participated actively in team meetings promoting effective communication and collaboration.
- Coordinated logistics related to research activities ensuring alignment with project timelines.

## LEADERSHIP & AWARDS

- Dean's List, University of Texas at Dallas, Spring 2025

- First Place, Engineering Design Competition, 2026

## CERTIFICATIONS

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- Introduction to Data Science 📅 2026
- Environmental Engineering Fundamentals 📅 2026

## PROFESSIONAL AFFILIATIONS

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- Member, Chemical Engineering Society, 2024 – 2026
- Volunteer, Environmental Clean-Up Initiative, 2025

## LANGUAGES

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- English (Native) • Spanish (Proficient)

## ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

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AVAILABLE ON REQUEST