

# Bianca Melendez

Junior Chemical/Environmental Engineer

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## STRENGTHS

- Collaboration**  
Worked alongside diverse teams, ensuring smooth project workflows and collective goal achievement.
- Analytical Skills**  
Interpreted complex environmental data, leading to well-informed project decisions and recommendations.
- Presentation Development**  
Crafted compelling presentations for academic audiences that effectively communicated essential project insights.
- Time Management**  
Skillfully prioritized multiple projects, adapting swiftly to changing deadlines while maintaining quality outcomes.
- Research Aptitude**  
Conducted thorough investigations into various chemical processes impacting environmental health, crafting recommendations.

## SKILLS

Microsoft PowerPoint

Data Analysis | Team Collaboration

Environmental Monitoring

Time Management

Analytical Skills

## LANGUAGES

English | Native

Spanish | Proficient

## 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

University of Texas at Dallas | GPA: 3.8 | 2026 | 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

## EXPERIENCE

### Chemical Engineering Student

University Project | January 2025 - May 2026 | 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

Academic Research | September 2024 - December 2025 | 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.

## MY CAREER

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- Chemical Engineering Student at University Project (1.3 Years)
- Environmental Engineering Research Assistant at Academic Research (1.2 Years)

- Coordinated logistics related to research activities ensuring alignment with project timelines.

## LEADERSHIP & AWARDS

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- 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

## 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