

Letter of Interest

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Hiring Manager
City of San Diego – Environmental Services Department, Miramar Landfill
San Diego, CA

Subject: Letter of Interest – Associate Mechanical Engineer

Dear Hiring Manager,

I am writing to express my interest in the Associate Mechanical Engineer position with the City of San Diego's Environmental Services Department at the Miramar Landfill. I am an EIT-licensed Mechanical Engineer with a Master's in Mechanical Engineering and over six years of experience in mechanical system design, HVAC, thermal analysis, and environmental applications, and three years in preparing predictive models and data analysis.

My experience includes designing and optimizing mechanical and HVAC systems, preparing technical specifications, cost estimates, and design calculations, and conducting quality control inspections to ensure safety and compliance. At the Eritrea Institute of Technology, I led the design of a 12 m³ biogas plant that converted food waste into renewable energy—an experience that reflects my commitment to sustainable and environmentally responsible engineering.

During my tenure at Florida International University, I applied ANSYS Fluent and COMSOL Multiphysics to simulate transient air, heat, and moisture transfer systems, improving energy efficiency and mechanical performance. I am also proficient in SolidWorks, AutoCAD, and MATLAB, and have hands-on experience conducting field inspections, maintenance oversight, and system diagnostics to ensure reliability and compliance with environmental regulations.

I am particularly drawn to this opportunity because it integrates mechanical engineering with environmental protection, aligning with my passion for sustainable infrastructure and my goal to support the City of San Diego's commitment to responsible waste management. I am confident that my combination of design expertise, analytical ability, and field experience makes me a strong candidate for this role.

Thank you for your time and consideration. I would welcome the opportunity to discuss how my background can contribute to the City's environmental and engineering initiatives.

Sincerely,
Kiflom Tesfamariam
EIT-Licensed Mechanical Engineer