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September 01, 2025

Dear Hiring Manager,

I am writing to express my interest in the Engineer, Water Resource position with the Department of Water Resources. With a Master's degree in Mechanical Engineering, a professional certificate in Machine Learning & AI, and over six years of experience in computational modeling, simulation, mechanical engineering design, system analysis, inspection, maintenance, and preparing predictive models, I bring a proven ability to deliver high-quality engineering services that meet operational and safety requirements. My background in both computational modeling and hands-on mechanical system support positions me well to make effective contributions to your team.

In my professional and academic experience, I have

- Prepared mechanical designs and performed engineering calculations using CAD tools (SolidWorks, AutoCAD) and computational software (ANSYS, COMSOL, MATLAB) to support projects in fluid dynamics and thermal analysis
- Conducted numerical simulations using ANSYS, COMSOL, and MATLAB for transient air, heat, and moisture transfer in building and energy systems
- Built data processing and visualization tools using Python and SQL to analyze results, debug models, and communicate findings clearly to technical and non-technical audiences.
- Developed reports, technical documentation, and presentations to communicate findings, design criteria, and project progress clearly and effectively.

Beyond my technical expertise, I bring strong analytical skills, a collaborative work style, and adaptability to dynamic project needs. The Department's mission to provide reliable, safe, and sustainable water resources resonates deeply with my professional values, and I am eager to apply my background in modeling, simulation, and engineering design to support this important work.

I would welcome the opportunity to discuss how my background and abilities align with your needs. Thank you for considering my application

Sincerely,

Kiflom B Tesfamariam