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Hiring Committee
Department of Nuclear Engineering
NC State University
Raleigh, NC

Dear Hiring Committee,

I am writing to express my interest in the Senior Statistical Analyst position with the Department of Nuclear Engineering at NC State University. With a robust background in statistical modeling, advanced data analysis, and instructional experience in higher education, I bring a unique combination of technical expertise and academic research engagement that aligns seamlessly with the goals of this role.

As a PhD candidate (ABD) in Political Science at SUNY Binghamton University, I have spent the past several years teaching Data Science and Applied Statistics while conducting independent quantitative research utilizing complex real-world datasets. My recent internship at Eth Tech allowed me to apply R and Python in tandem to lead cohort analyses, customer segmentation, and retention modeling using over 26,000 records across global markets. I developed interactive dashboards, built RFM models, and applied machine learning techniques, which are skills directly transferable to your ongoing survey data analysis related to radiological risk and nuclear waste management.

In the academic setting, I have taught over 200 undergraduates for the past three years in courses involving OLS/logistic regression, decision trees, and hypothesis testing using both R and Python. I also guided capstone teams through end-to-end stakeholder analysis, often leveraging public data sources and open biomedical datasets. These experiences reflect not only my technical proficiency in R and Python, but also my ability to communicate findings clearly through written reports and webinars.

My permanent address is in Apex, NC, where I will be staying after May 2026. I am excited by the opportunity to contribute locally to a research-driven, interdisciplinary initiative at NC State. The position’s focus on demographic and survey data, along with the opportunity to collaborate with graduate students and support workshops, is especially appealing to me as it bridges both my analytical strengths and my passion for education.

I would welcome an interview opportunity to further discuss how I can contribute to the department’s success. Thank you for your time and consideration.

Sincerely,
Yiming “Alice” Hong