

[Your Full Name]
[Address / City, State]
[Phone Number]
[Email Address]
[LinkedIn / Portfolio / GitHub URL]
[Date]

[Hiring Manager Name]
[Title, e.g., Head of Quantitative Research]
[Company Name]
[Company Address]

Dear [Mr./Ms./Mx. Last Name],

I am writing to express my strong interest in the [Position Title] position at [Company Name]. As a [Current Role / PhD Candidate] in [Field, e.g., Physics, Mathematics, Financial Engineering] at [University/Current Firm], I have developed a rigorous analytical framework for [mention specific area, e.g., high-frequency market microstructure or stochastic volatility modeling] which aligns with [Company Name]'s reputation for data-driven alpha generation.

My research background is centered on [Thesis Topic / Professional Specialization]. During my tenure at [Current/Previous Institution], I successfully [mention a major technical achievement, e.g., developed an automated backtesting engine or optimized a Bayesian inference model]. This project involved [mention specific tools, e.g., Python/C++, R, SQL] and resulted in [mention a quantitative result, e.g., a 15% reduction in execution slippage or a published paper in Journal of Finance].

I am particularly drawn to [Company Name] because of your recent work in [Specific Area of Firm's Interest, e.g., alternative data integration or machine learning in fixed income]. I am confident that my ability to bridge the gap between complex mathematical theory and practical trading applications will contribute immediately to your research pipeline.

I have enclosed my CV and a summary of my recent research papers for your review. I look forward to the possibility of discussing how my technical skills in [Skill 1] and [Skill 2] can support the quantitative goals of [Company Name].

Sincerely,

[Your Name]