

[Your Full Name]
[Your Address]
[Phone Number]
[Email Address]
[LinkedIn/Portfolio URL]

[Date]

[Principal Investigator or Hiring Manager Name]
[Department Name]
[Institution/Laboratory Name]
[City, State, Zip Code]

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

I am writing to express my strong interest in the Molecular Biology Research Internship at [Institution Name] as advertised via [Source]. As a [Year] student pursuing a degree in [Major] at [University], I have developed a deep fascination with [Specific Research Area, e.g., gene regulation, protein synthesis, or CRISPR applications], which aligns perfectly with the ongoing work in the [Last Name] Lab.

My academic background has provided me with a solid foundation in molecular genetics and biochemistry. Through my coursework and previous laboratory experience, I have gained proficiency in essential techniques including [Technique 1, e.g., PCR/qPCR], [Technique 2, e.g., Gel Electrophoresis], and [Technique 3, e.g., Bacterial Transformation/Cell Culture]. Specifically, during [Project/Previous Internship], I successfully [describe a specific achievement or skill applied], demonstrating my ability to maintain precise records and adhere to rigorous safety protocols.

I am particularly drawn to your lab's recent publication regarding [Briefly mention a specific paper or research topic from the lab]. I am eager to contribute to this research while further refining my skills in [Specific Skill you wish to learn] under your mentorship. My analytical mindset and dedication to scientific inquiry make me a proactive team member capable of contributing to the lab's high-impact objectives.

Thank you for your time and for considering my application. I have attached my CV and academic transcripts for your review. I look forward to the possibility of discussing how my background and enthusiasm for molecular biology can support the research goals of the [Last Name] Lab.

Sincerely,

[Your Name]