

[Your Full Name]
[Your Address]
[Your Email] | [Your Phone Number]
[LinkedIn Profile/Portfolio Link]

[Date]

[Principal Investigator Name]
[Laboratory/Research Group Name]
[Department Name]
[University Name]

Dear Dr. [PI Last Name],

I am writing to express my strong interest in the Undergraduate Research Assistant position within the [Name of Lab] at [University Name], as advertised via [Source of Advertisement]. As a [Year] student pursuing a degree in [Your Engineering Major], I have followed your work regarding [Specific Topic of Lab's Research] and am eager to contribute to your current projects.

My academic background has provided me with a solid foundation in [Core Subject 1] and [Core Subject 2]. Through my coursework and [mention a specific project or lab class], I have developed technical proficiency in [Key Software/Programming Language, e.g., MATLAB, SolidWorks, Python] and [Specific Laboratory Skill, e.g., circuit design, material testing, or data analysis]. I am particularly interested in how your research applies [Specific Engineering Concept] to solve [Specific Problem], and I am confident that my analytical skills would be an asset to your team.

Beyond my technical skills, I am a highly motivated and detail-oriented individual. During my time in [Name of Previous Org or Class Project], I demonstrated the ability to [mention a soft skill, e.g., collaborate in multidisciplinary teams or manage complex documentation]. I am eager to apply this rigorous approach to the data collection and experimental protocols required in your lab.

Thank you for your time and for considering my application. I have attached my resume and [mention any other documents, e.g., unofficial transcript] for your review. I look forward to the possibility of discussing how I can support the [Name of Lab]'s research goals.

Sincerely,

[Your Signature]
[Your Printed Name]