

[Your Full Name]

[Your Street Address] | [City, State, Zip Code]

[Your Email Address] | [Your Phone Number]

[Date]

[Professor's Name]

[Department of Physics]

[University Name]

[Building and Room Number]

Dear Dr. [Professor's Last Name],

I am writing to express my strong interest in joining your research group as an Undergraduate Research Assistant, specifically regarding your work in [Specific Research Area, e.g., Condensed Matter Physics or Computational Astrophysics]. As a [Year, e.g., Junior] Physics major at [University Name], I have followed your recent publication on [Topic of Paper] and am eager to contribute to the ongoing projects in your laboratory.

My academic background has provided me with a solid foundation in [Course Name 1] and [Course Name 2]. Through my coursework and independent study, I have developed technical proficiency in [Software/Language, e.g., Python, MATLAB, or LaTeX] and experience with laboratory instrumentation such as [Specific Equipment]. Last semester, I completed a project titled "[Project Name]" which required rigorous data analysis and an understanding of [Physical Principle].

I am particularly drawn to your lab because of its focus on [Specific Lab Focus]. I am a detail-oriented student with a commitment to scientific integrity and am eager to apply my problem-solving skills to assist with [Specific Task, e.g., data collection, experimental setup, or numerical simulations]. I am available to commit [Number] hours per week during the [Semester].

Thank you for your time and for considering my application. I have attached my CV and academic transcript for your review. I look forward to the possibility of discussing how I can contribute to your research team.

Sincerely,

[Your Signature (if sending by mail)]

[Your Printed Name]