Application for the UC QuarkNet Summer Research Internship Program for Current High School Students

You are applying for a 6-week paid internship working on a research project with the University of Cincinnati Physics Department. Four students will be selected. All will participate in analyzing data recorded by the LHCb experiment at CERN (the European Organization for Nuclear Research). The overall purpose of the program is to introduce participants to physics research. You will learn how to analyze data and will learn elements of experimental particle physics including detector physics. The work will be computer intensive, but *no prior programming experience is required*. Similarly, *no prior physics coursework or knowledge is required.* Work will be done in-person at the University of Cincinnati

You will be expected to present your work at the end of the program.

The program will start June 24th and end August 2nd. All interns are expected to make a good-faith effort to participate fully during this period.

The in-person meeting hours will be from 9 AM until 4 PM, M-F, with a one-hour break for lunch. You are also expected to invest some additional effort outside these hours.

You will need to secure your own transportation to and from the Geology/Physics building at the University of Cincinnati. If you want to take Metro, we can arrange passes for you.

You will receive $2400 upon successful completion of your work. We plan to provide lunch daily. If you have any dietary constraints or preferences, please let us know in advance.

Email your application and any questions to: Michael Wilkinson [michael.wilkinson@uc.edu](mailto:michael.wilkinson@uc.edu), Gabe Nowak [nowakgl@mail.uc.edu](mailto:nowakgl@mail.uc.edu), and Conor Henderson [hendec4@ucmail.uc.edu](mailto:hendec4@ucmail.uc.edu).

All applications received by 5 PM Friday, May 3 will receive full consideration. Applications received subsequently may or may not be considered.

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| |  |  | | --- | --- | | Name | Mohamed Elashri | | Preferred Phone No. | 218-721-7690 | | Home Address | 2475 paris st | | Zip code | 45219 | | Preferred E-mail | elashrmr@mail.uc.edu | | Parent(s)/Guardian(s) Name(s) | NONE | | Parent(s)/Guardian(s) Phone No.(s) | NONE | | High School | NONE | | Grade level fall 2024 | TEST | | Grade point average (most recent, unweighted) | 4.0 |   Written permission from Parent(s)/Guardian(s) will be required.  1. The work needs to be completed by August 2nd and will start June 24th. List any potential scheduling conflicts. |  |
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| 2. Number and level of science classes that will be completed by June, 2024.  3. What science class(es) will you take next year? |
| 4. To what extent are you available to arrange your own transportation to and from UC?  (Financial support for using public transportation will be available.) |
| 5) In 500 words or less, explain why you are interested in this work and why you should be selected. We want to select highly motivated candidates who are likely to benefit from the experience. |
| Thank you,  Michael Wilkinson [michael.wilkinson](mailto:wilkinm7@ucmail.uc.edu)  Gabe Nowak [nowakgl@mail.uc.edu](mailto:nowakgl@mail.uc.edu)  Conor Henderson [hendec4@ucmail.uc.edu](mailto:hendec4@ucmail.uc.edu) |