



FERMILAB SIST INTERNSHIP APPLICATION QUESTIONS

(This document is for preparation purposes only. Application must be completed and submitted online at:

[Click here for the LIVE APPLICATION](#)

Q1. Name and Contact Information

TIP: Make sure you use a professional sounding email address or use your school email address.

Q2. Work Experience – List jobs you have held. For each job, list the Employer, Position, Dates of Employment, and Description of the work. (2000 characters max)

Q3. Discuss some of your favorite courses, some classroom/lab experience that you enjoyed and the challenges you faced. (2000 characters max)

Q4. Briefly discuss what attracted you to your major and your career plans. Are you planning on attending graduate school? Going into industry, R&D, etc.? (2000 characters max)

Q5. Describe in detail a project or projects that you have worked on. Did you meet the project design goals? What were some of the challenges you faced and how did you overcome them? (2000 characters max)

Q6. Please provide any additional information that will help the committee evaluate your application more fully. (2000 characters max)

TIP: This is where you can convince the committee you are a good fit for the internship. Talk about any personal or academic experiences or challenges you've had that make you especially prepared for this opportunity.

COMPETENCIES QUESTION

Q7. Please rate your experience level using the following scale: No Experience, Some Experience, Working Knowledge, and Expert.

- Assembly Language
- Java
- C Sharp
- Python
- PHP
- Javascript
- Mathcad
- Mathematica
- Web Server Administration
- GUI Programming
- Maple
- ANSYS
- C Language
- C++
- Fortran
- Perl
- HTML
- MATLAB
- SQL
- Windows Administration
- Real-time Programming
- Computer-aided Design (CAD)
- 2D or Solid Modeling

Q8. Please rate your experience level using the following scale: No Experience, Some Experience, Working Knowledge, and Expert.

- Oscilloscope
- Logic Analyzer
- Analog Circuit Design
- Soldering
- Printed Circuit Boards
- LEGO Mindstorm
- Digital Multimeter
- Spectrum Analyze
- Digital Circuit Design
- Microcontrollers
- Electrical Schematic

Q9. Please rate your experience level using the following scale: No Experience, Some Experience, Working Knowledge, and Expert.

- Hand Tools
- Optical Systems
- Cryogenics
- Calculus
- Quantum Mechanics
- Power Tools
- Vacuum Systems
- Robotics
- Basic Physics

TIP for Q7-9: Answer questions honestly. It is ok if you have no experience in any or all of the categories. Your answers will not be used as selection criteria. This information is used for job assignment.

END APPLICATION