The University of Alabama
Nanoscience and Engineering High School Research Internship

The Center for Materials for Information Technology (MINT) at the University of Alabama invites high school sophomores and juniors to apply for a summer research internship in nanoscience and engineering. The students will join the nanoscience and engineering research team to do basic research. The Center for Materials for Information Technology is one of the world’s leading centers of expertise in materials and processes used in information storage devices. Faculty from physics, chemistry, chemical engineering, electrical engineering, metallurgical and materials engineering and biological engineering form multidisciplinary research teams to solve fundamental materials science problems. Research programs at the MINT center involve fundamental studies on materials for data storage, energy storage, sensors and other applications of new materials and technologies.

We invite high school sophomores and juniors who are highly motivated toward a career in research in science and engineering. This will be a full time summer job beginning on June 1, 2017 and ending on July 21, 2017. The students will be paid a stipend of $1,000. The program does not offer any support for housing accommodations and therefore applicants should be residents of Tuscaloosa County.

The interns will be trained in safe laboratory practice and educated in the scientific principles underlying research at the MINT center. The interns will join a team consisting of faculty, graduate students and undergraduate students from physics, chemistry, chemical engineering, electrical engineering, metallurgical and materials engineering and biological engineering. The team will also include other high school interns. Each intern will have his/her own project and will be provided with the support structure (supervision, training and teammates) to allow them to accomplish their project goals by the end of the summer. It is expected that the students will complete a body of work sufficient to have a competitive entry for the local and national science fair competitions. In the past, one of our interns have selected as a semifinalist in the Siemens-Westinghouse Science Fair competition and another won the West Alabama Science Fair and traveled to Phoenix to participate in the Intel Science and Engineering Fair.

If you are interested in nanoscience and engineering, and committed to a career in research, we invite you to apply. There are a limited number of positions and they will be awarded to the most qualified candidates. Preference will be given to those who have taken advanced science and math courses, such as A.P. Chemistry, A. P. Physics or A. P. Calculus. We will begin screening applications on March 25, 2017 and expect to make offers early in April 2017.

The University of Alabama
Center for Materials for Information Technology
Attention: Jamie Crawford
201 7th Avenue, 2005 Tom Bevill Building
Box 870209
Tuscaloosa, Alabama 35487-0209

The University of Alabama is an equal opportunity employer and particularly invites applications from women and minorities.
Application for a Nanoscience and Engineering High School Research Internship

Name: ________________________________________________________________

Street Address: _______________________________________________________

City / State / Zip: _____________________________________________________

Phone Number: ___________________________ E-mail Address: ________________

Social Security Number: _______________ Date of Birth: ______________________

Parents

Father: ___________________________ Mother: ___________________________

Father’s Phone: ______________________ Mother’s Phone: ___________________

Father’s E-mail: ____________________ Mother’s E-mail: ____________________

High School: _________________________ Graduation Date: _________________

Current GPA: _______________________

Science and Math Courses Taken:

_____________________________________________________________________

_____________________________________________________________________

Science and Math Courses to be taken during the coming fall

_____________________________________________________________________

_____________________________________________________________________

Names addresses, telephone numbers and e-mail addresses of three (3) people who are providing letters of reference:

Reference #1                Reference #2                Reference #3

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________

By submitting this application, I understand that housing accommodations are not available as part of this program.

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Write a one page essay that describes your career interests:
To the person providing a letter of reference:

Your student is applying for a Nanoscience and Engineering High School Research Internship (for details on the program see: http://mint.ua.edu/education/high-school-internship-program/).

The internship is a full time summer job and we would like to identify top candidates for these few positions. In your letter of recommendation please be as specific as possible. Please comment on your student’s academic accomplishments and commitment to a career in research. Please also comment on the student’s work ethic. Does the student come to class on time and complete assignments on time? Is the student enthusiastic about completing assignments? The students will be asked to learn a number of lab skills very quickly. Is the student capable of learning fast? Please also comment on the student’s communication skills, both written and oral. Also comment on the student’s personality and ability to get along well with others in a team. As our students’ safety is always our top priority please also comment on the student’s maturity and responsibility, particularly when obeying rules and regulations.

Thank you for the effort you are taking for your student!