THE FLYER

November 10, 2009

AE Undergraduate Weekly Newsletter

***AIAA Building Junkyard Rockets**
***Aero Rep needed for Engineering Student Alumni Ambassadors**
***Engineering Boot Camp at Bell Helicopter**
***Freshman Intro to Aerospace Vehicle Design**
***Lemelson-Illinois Student Prize**
***Blue Origin Summer Internship in Aerospace**
***AE Tutoring Sessions**

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*AIAA Building Junkyard Rockets

Wednesday, November 11, 6:00 pm, 105 Talbot Lab
We will be building junkyard rockets! Bring your trash and come build yourself a rocket! Future events will also be discussed such as EOH projects, tech projects and tour of Beckman flight simulator. Pizza will be available.

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*Aero Rep needed for Engineering Student Alumni Ambassadors

Engineering Student Alumni Ambassadors (ESAA) are an engineering student organization that works side-by-side with the College of Engineering to sponsor events for students and alumni to interact and build steady relationships. A lot of what we do is based on alumni and student interaction. We host a number of events for students, including FreshmanFest, Senior Sunday and Engineering Convergence. We also host events for alumni who come back to campus for EXPO, and EOH. You can find out more about our organization online: http://www.engr.uiuc.edu/esaa/.

If are interested in serving as an ESAA or have further questions, please contact Douglas A. Litteken at esaa@engr.uiuc.edu .

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*Engineering Boot Camp at Bell Helicopter

Application Deadline: November 13, 2009

Bell Helicopter has an Engineering Boot Camp which is a week-long event held in Fort Worth, Texas, January 4-8, 2010. As a participant, you will work with a team to execute an engineering project and present your team's results to Bell's senior management team. Recent project themes have included:

> The Design of Innovative Pilot Control Methodology for Attitude Independent Aircraft
> Helicopter Tail Rotor Accident Avoidance
> Ballast Loading on the Bell-Boeing V-22 Osprey
> Design Requirements for a Factory of the Future

To be eligible to participate, you must currently:
Be a full-time undergraduate student pursuing a degree in Aerospace, Electrical, or Mechanical Engineering; have completed 75 college credit hours at the end of the Fall 2009 semester; 12 of which should be in your major; and be a US person as defined Traffic in Arms Regulations (ITAR). ITAR defines a U.S. person as a U.S. Citizen, U.S. Permanent Resident (i.e. 'Green Card Holder'), Political Asylee or Refugee.

For students interested in this program they can follow the instructions below.
To apply, go to www.bellhelicopter.com
Click on “Careers”
Click on “Undergrads and recent graduates” under “Find a Job”

At the bottom of the web page, select the following:
1. Business Unit: “Bell Helicopter”
2. Job Category: “Engineering R&D”
3. Country: “United States”
4. And then click “Search”
Links to the 2 requisitions will be displayed: Req 28300 and Req 28433.

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***Freshman Intro to Aerospace Vehicle Design**
Application Deadline: 5:00 pm, Monday, November 16
AE 199 in the spring semester is a one credit hour course open to freshmen only to introduce them to the design of aerospace flight systems. Freshmen mentees will be matched with upperclassmen mentors in the AE 441 senior design course. Mentees will work with their mentors to perform studies in the principles of systems engineering as they apply to the design process, general design methodology, and the application of these concepts to the initial sizing of either aircraft or spacecraft systems.

Please see application and further information attached.

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***Lemelson-Illinois Student Prize**
Application Deadline: 5:00 pm., Friday, November 20
The Lemelson-Illinois Student Prize, administered by the Technology Entrepreneur Center in the College of Engineering, is awarded on an annual basis to an undergraduate or graduate student who has created or improved a product or process, applied a technology in a new way, redesigned a system, or demonstrated remarkable inventiveness in other ways.

See http://www.30kprize.illinois.edu/ for further information and online application

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***Blue Origin Summer Internship in Aerospace**
Application Deadline: January 31, 2010
This extraordinary 10-week summer internship is open to undergraduate and graduate engineering students and has proven to be extremely rewarding for students as well as our company. A complete description of the internship can be found on the “Internships” tab at our website www.blueorigin.com. A link to the internship application is provided at the bottom of that description.

Blue Origin is in Kent, Washington, about 10 miles south of Seattle. The lab is a remarkable facility with specific testing and research facilities which include propulsion, vehicle assembly, chemistry, composites, machining, and avionics. Our main goal is to provide a very valuable experience for young engineers and provide them with opportunities to utilize classroom learning for solving real-world aerospace challenges. Past interns have worked on a wide variety of projects.

The internship compensation package provides students with housing, travel reimbursement, and a very competitive compensation package based on academic experience. We routinely receive 300 applications for the 6 available positions and for this reason early submission of application materials is encouraged.

If you have any questions regarding the Summer Internship, please contact Dr. Mark Hofer, mark@blue.aero.

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***AE Tutoring Sessions**

Monday-Thursday from 5:30-8:30 pm, Room 319M Talbot Lab
The tutoring sessions will begin on Monday, August 31, 2009. The tutors will help with all technical courses. All students are welcome to use the tutoring sessions or if you just need a quiet room to study. If you have further questions or concerns, please email Barb Kirts at bkirts@illinos.edu

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AE homepage: http://www.ae.uiuc.edu/.
Undergrad program: http://www.ae.uiuc.edu/academics/undergrad/
Opportunities: http://www.ae.uiuc.edu/opportunities/
Visit the *Engineering Update* web site http://www.engr.uiuc.edu/communications/eupdate/ for College of Engineering news.