2012 REACH SUSTAINABILITY AWARD
PRESENTED TO
COMPUTER SCIENCE UNDERGRADUATE

Computer Science freshman and University Honors program student, **Mr. William Blankenship**, was awarded one of only two "Sustainability" awards, on Monday, April 16th, at this year's 2012 Research Enriched Academic Challenge (REACH) competition, sponsored by the Office of Sponsored Projects Administration (OSPA) and the Office of the Provost and Vice Chancellor at Southern Illinois University, Carbondale, Illinois. This award covers the student's stipend, travel, software and hardware costs for a year, from fall 2012 to fall 2013. He will be using the cluster resources at CS department as well as the campus cluster to conduct research activities under the supervision of Dr. Mengxia "Michelle" Zhu in the Department of Computer Science. The project title is *Efficient Job Scheduling Algorithm for Sustainable High Performance Computing.* The algorithm will save electricity consumed by the computer cluster and server on campus through more efficiently running computer tasks, thereby reducing the "green gas" effect.

REACH has partnered with the SIUC Sustainability Council to fund two REACH awards, to be given to two projects related to sustainability. A sustainability-focused project could be generated by any discipline on campus. Sustainability, as defined by the Sustainability Council (using the definition from the Association of University Leaders for a Sustainable Future), *implies that the critical activities of a higher education institution are ecologically sound, socially just and economically viable, and that they will continue to be so for future generations. A truly sustainable college or university would emphasize these concepts in its curriculum and research, preparing students to contribute as working citizens to an environmentally healthy and equitable society. The institution would function as a sustainable community, embodying responsible consumption of energy, water, and food, and supporting sustainable development in its local community and region.*