

Smart Lighting – Smart Power – Smart Systems Curriculum Development Institute Teacher Program – Summer 2012

This one week teacher program on the campus of Rensselaer Polytechnic Institute in Troy, New York is organized and sponsored by the NSF Smart Lighting Engineering Research Center. This program is team taught by graduate students and university faculty who introduce teachers to leading edge lighting, power and sensor technologies and how they can be integrated into real world, sustainable and well-engineered Smart Systems. Participants will be engaged in hands-on activities using the fundamentals of electronics and photonics to engineer solutions that address today's social and environmental challenges. The agenda allows time for collaborative curriculum development among participants and faculty. Science & / or technology teachers will come back with the knowledge, skills, confidence, and a strategy to create unique curriculum to meet common core education standards.

WHO: High school and middle school general science, physics, math, and technology teachers as well as some combination of interdisciplinary teams of teachers from school districts are encouraged to participate to develop project based curriculum modules.

WHEN: Monday, June 25 to Friday, June 29, 2012.

PROGRAM FEES: Program is free including supplies and workshop proceedings. Transportation, lunch and other costs are the expense of the participant.

HOUSING - RESIDENTIAL OPTION: On campus housing (single) and meals for participants can be provided at an additional cost.

APPLICATION PROCESS

Please visit <http://summer.rpi.edu/update.do?artcenterkey=77> to find detailed information. Teachers are encouraged to apply on or before March 31, 2012. An email will be sent to confirm receipt of materials, please make a copy for your records. After March 31, 2012, applications will continue to be considered for the 2012 program on a rolling basis until the program is full. Faculty decisions will begin April 2, 2012. Decisions will be sent to teachers by email.

FOR MORE INFORMATION

To be added to the mailing list, visit the summer website and complete the "Contact Us" form. If you have any questions about the academics of the program, please contact, Elizabeth Herkenham, Education Outreach, School of Engineering / Smart Lighting Engineering Research Center at 518-276-6245 or herkee2@rpi.edu.



Adults & Working Professionals
Advance Your Career!
Summer@Rensselaer
<http://summer.rpi.edu>



PERSONAL INFORMATION – Use one form per teacher * Please make a copy for your records *****

Complete all parts of this application and return to; Rensselaer Polytechnic Institute, Academic Outreach Programs, Summer@Rensselaer - 110 8th Street – 1516 PE, Troy, NY, 12180-3590 USA or fax to (518) 276-8738.

Teacher First Name: _____ Teacher Last Name: _____

Home Mailing Address: _____

Home City: _____ Home State: _____ Home Zip: _____

Work Phone: _____ Work E-Mail Address: _____

Day Phone: _____ Personal E-mail Address: _____

School Name: _____ School District: _____

School Mailing Address: _____

School City: _____ School State: _____ School Zip: _____

Teaching Grade level/s: _____ Subject/s: _____

Total years teaching: _____

Names of other team members from school district (if applicable): _____

I am applying for the **2012 Smart Lighting – Smart Power – Smart Systems – Curriculum Development Institute** scheduled for June 25-29, 2012.

This is a day program with a residential option (please check one):

- Commuter
- Residency - If you would like the residence option, please note that housing (single rooms are available) and meals will be an additional charge. \$175.00 for the single room and a meal plan during the program is \$90.00. Upon acceptance into the program be prepared to submit payment to cover the cost of housing and/or meals.

Application Process: Teachers are encouraged to apply on or before March 31, 2012. An email will be sent to confirm receipt of materials, please make a copy for your records. After March 31, 2012, applications will continue to be considered for the 2012 program on a rolling basis until the program is full. Faculty decisions will begin April 2, 2012. Decisions will be sent to teachers by email.

Please include the following supplemental information with your application:

- A paragraph explaining why you are interested in this opportunity and how you envision implementing this curriculum into your classroom; course, modules, etc. Also please include any prior experience with lighting, power and sensor technologies (not a prerequisite).

How did you hear about the Summer@Rensselaer? (Circle all that apply) School, Guidance Counselor, Times Union Online, Homeschoolers Guide, Tri-City Valley Cats, SREB HSTW, ASCA, Project Lead The Way, NYSSCA, ASCA, RPI Players, Science Fair, Camp Fair, Summeroncampus.com, kidscamps.com, RPI Faculty/Staff, RPI Athletics, RPI Admissions, RPI Campus Visit, RPI Alumni, Friend/Referral, RPI Newspaper, Summer@Rensselaer Program Flyer, Summer@Rensselaer Booklet, Polytechnic, Web Search, Newspaper: _____ Website: _____, Other: _____

The Smart Lighting Engineering Research Center is supported by the National Science Foundation under cooperative agreement EEC-0812056 and by the New York State Foundation for Science, Technology and Innovation under contract C090145.

Program Assessment Consideration: There will be an optional assessment evaluation process for students: pre-program, immediate post program and 3-6 month delay post program designed to determine effectiveness of the program with respect to engaging students in engineering related activities. Please note: Rensselaer’s Institutional Review Board (IRB) has reviewed and accepted the assessment instruments designed to determine the effectiveness of the programming.

I understand and accept the above information.

Applicant’s Signature Date