



# ***STEM Workforce Development Program Office***

## **US Department of Energy's Real World Design Challenge**

The University of Hawaii's STEM Workforce Development Program Office invites you to participate in the US Department of Energy's Real World Design Challenge, an exciting program that aligns secondary education with 21st Century workforce needs. All tools, design problems and participant roles are based in reality, making the experience relevant and compelling to students.

### **Professional development for teachers:**

- Each team will receive FREE permanent licenses and upgrades of Pro/ENGINEER Wildfire design software (300 seats plus student home use, worth \$900,000) and one license of EFD.Pro fluid dynamics simulation program.
- FREE hands-on teacher training, project-based curriculum and online support from professionals at national laboratories.
- Learn a cutting-edge and multi-purpose CAD software program including collaboration tools.

### **Opportunities for students:**

- Learn professional tools and work with mentors from the US Department of Energy (DOE), the Federal Aviation Administration (FAA), industry experts and higher education.
- Tackle a real-world engineering problem in a context that addresses national standards in science, mathematics and technology.
- Have submissions evaluated by a Peer Review Committee, just as professional work is reviewed.

Each participating Hawaii team will be invited to attend an awards ceremony hosted by Governor Lingle. The winning Hawaii team will be sponsored (all expenses paid, up to 7 students and 1 teacher) by the US DOE to represent Hawaii at the National Challenge in Washington, DC, March 27-30, 2009 (tentative)

### **Upcoming program dates:**

- Challenge is released October 1<sup>st</sup> and teams may begin registering (see link below).
- Governor's kickoff ceremony: 3pm October 8<sup>th</sup>.
- \*Free Two-day teacher training: October 20<sup>th</sup> and 21<sup>nd</sup>, location: UH Manoa, Keller Hall, Room 204.
- Team registration deadline: November 15<sup>th</sup>.
- Challenge submission deadline: February 2<sup>nd</sup>.

For more information and to register for the training visit <http://www.scied.science.doe.gov/RWDC/HI.html>

**Contact:** Jeff Bloom or Leyla Cabugos at 808-539-3824 or [stemwd@hawaii.edu](mailto:stemwd@hawaii.edu)

\*Travel stipends available for neighbor island teachers, contact Jeff or Leyla for details