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Job Search

- The Business Education Compact has immediate openings for two new, HIGH PRIORITY positions. Visit www.becpdx.org and follow the “Employment at BEC” link. In their words:
 - **Fund Development Officer.** This is a part-time, permanent position (20-25 hours/wk) that would eventually become full-time. Since this position is new position to the BEC, we are in need of senior-level skills.
 - **Business Development Manager.** This full-time individual will be responsible for generating new business for the following programs: Student Internships; Educator Internships; and National Engineers Month. Well-developed selling skills are a must. While nonprofit experience is NOT a requirement, a proven ability to sell services is essential.

Events – Wrap-Up

- **ISEF** - Intel’s International Science and Engineering Fair, held recently in Atlanta. Notably, ISEF 2007’s top three awardees were male; this year they are all female.
 - **Christian Science Monitor Article** <http://www.csmonitor.com/2008/0517/p01s01-usgn.html>
 - **Press Release:** <http://sciserv.org/isef/results/winnerpr2008.pdf>
 - Two of the **Fire Breathing Rubber Duckies** built upon their ORTOP and NWSE experiences and went to ISEF. The scuttlebutt is that these intelligent, lovely and creative young ladies will recategorize their next year’s project as “Computer Science” rather than “Electrical Engineering” – that old software/hardware divide. While winning no further awards, they did get coverage in Scientific American. We also hear they did a great job of evangelizing FIRST LEGO League, which inspired their project, an optimization of the NXT robot’s software to minimize memory hogging.
 - The team website: <http://www.villagehome.org/lego/FBRD/index.html>
 - Scientific American: <http://science-community.sciam.com/thread.jspa?threadID=580000915&rw=true&print=true>
 - On YouTube: http://www.youtube.com/watch?v=Jg39pF20M_w
 - 16 Oregon Students earned awards:
 - **PH001 A Quantum Computational Approach to the Atomic Many-Body Problem** Yale Wang Fan, 16, The Catlin Gabel School, Portland, Oregon
 - **EM005 Extracting Oil from Algae Grown in Wastewater for Biodiesel Production, Year Two** Jennifer Joy VanderWeele, 16, Oregon Episcopal School, Portland, Oregon

The OPAS Vision is that all Oregonians have the opportunity to choose and successfully pursue engineering or applied science as their field of study and career, thereby helping Oregon’s industries contribute to state economic needs, and innovate and prosper in the global economy.

A service of the Oregon Pre-Engineering & Applied Sciences Initiative (OPAS)

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archives: <http://opas.ous.edu//OPASsphere/index.html>

- **MA001 The DNA Inequality in Non-Convex Regions** Eric Kerner Larson, 16, South Eugene High School, Eugene, Oregon
 - **CB001 Role of Calcium/Calmodulin-dependent Protein Kinases in BDNF-induced AMPA Receptor Surface Trafficking** Diya Dwarakanath, 17, Westview High School, Portland, Oregon
 - **BE304 A Discussion About Equality: A Gender Study in the Classroom** Mary Alysandra Patzel, 18; Jessica Rae Cummins, 17, both from West Salem High School, Salem, Oregon
 - **AS029 Salinity Tolerance of the New Zealand Mudsail (*Potamopyrgus antipodarum*) Collected from Young's Bay, Oregon** Matthew Antony Nugent, 14, Oregon Episcopal School, Portland, Oregon
 - **EM001 Low Cost Single Chambered Microbial Fuel Cell for Harvesting Energy Cleansing Wastewater** Ashutosh Patra, 16, Sunset High School, Portland, Oregon
 - **CS004 Retrieving Regions-of-Interest from Videos on the Fly Without Transcoding** Timothy Bauman, 16, Central Catholic High School, Portland, Oregon
 - **EE014 Universal Screwdriver Head** William Decker Neiswanger, 17, School of Science and Technology, Beaverton, Oregon
 - **EN015 Developing a Novel pH Buffer Methodology to Inhibit Concrete Corrosion** Michael Jeffrey Loy, 17, Oregon Episcopal School, Portland, Oregon
 - **EM009 Mathematical Modeling of Conflagration Potential and Its Versatile Detection Devices** Nima Ahmadi, 16, Westview High School, Portland, Oregon
 - **EA301 An Examination of Chloride Deposition in Connate Water Isolated from Subterranean Rock Deposits in Oregon's Willamette Basin Comparatively Related to the Chloride Content of Present Day Ocean Water** Kerry Reid Streiff, 16; Dennis Chen Shi, 16, both from Oregon Episcopal School, Portland, Oregon
 - **PS303 Development of a Rapid Assay Test to Identify Potential Sources of Salt Tolerance in Wild Oregon Strawberry (*Fragaria* sp.) Populations** Hanna Rose Lorenz, 17; Robert Michael Livesay, 17; Elliott Chad Finn, 16, all from Crescent Valley High School, Corvallis, Oregon
- **OGPC 1.0 – The First Annual Oregon Game Programming Contest** – The Engineering and Technology Industry Council (ETIC) and TechStart Education Foundation (formerly Software Association of Oregon Foundation) are pleased to announce the results of **the 1st annual Oregon Gaming Project Challenge 1.0, a computer game design contest for high school teams from across the state**, part of an effort to increase student interest, excitement, and experience in technology fields to meet industry and state needs. 21 teams participated, and at the end of the day, **Philomath's Team Phred** took home the Champion trophy. Paul Atkinson, 9th grade; Ray Cochran, 12th grade; Emily Dunham, 10th grade; Anna Maxfield, 10th grade; Taj Morton, 12th grade; and Karl Payne, 9th grade were coached by. Bill Atkinson and Tom Thompson. "This was a really great challenge because the designers of the competition left the options open, and we saw a wide variety of approaches that successfully integrated the energy theme," said Emily Dunham of team Phred. "I'd never programmed before the challenge and found it really inspiring to see how many varieties of games could be created."
 - **Photo:** http://www.ous.edu/news_and_information/news/img/teamPhred.jpg
 - **Press release -** http://www.ous.edu/news_and_information/news/052208.php

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Community Partners

- **MIPO – Micro-Enterprise Inventor’s Program of Oregon** - <http://www.mipooregon.org/> - provides resources for inventors to turn ideas into products – and yes, that includes software.
- **The Voice of Oregon Manufacturing** - <http://www.oregonmanufacturing.org/node> - your portal for news and resources about manufacturing in Oregon, part of the Manufacturing Workforce Strategy coming from the Oregon Workforce Investment Board

Weblinks

- Latest Computer Science News at <http://getreal.ous.edu/news.php>, part of the newly revamped **GetReal** website, a collaborative effort between Oregon teachers, Oregon Industry, and the Oregon University System to provide up-to-date computer science career information, aimed at high school students, parents, and educators. Check out the people profiles, a student favorite. Please send publishable news items, comments, and suggestions to ken_cone@ous.edu.

Equity

- eCampus Today – “**Wanted: More Hispanics in STEM Fields**” -- http://www.ecampustoday.com/news/top-news/index.cfm?i=53716;_hbguid=00c21455-70b8-4073-b311-062cdaef79c4 *Thanks to Steffen Moller*

Articles

- New York Times – “**High Tech Japanese Running out of Engineers**” -- <http://www.nytimes.com/2008/05/17/business/worldbusiness/17engineers.html?pagewanted=2&ei=5070&en=a5cad173f861cf2a&ex=1211688000&emc=eta1> *Thanks to Dick Knight and Michal Young – great minds think alike ...*

Classroom Resources

- Engineering Career Presentation CDs - <http://www.engineeringedu.com/store/powerpackcds.html>

PLTW

- **Pre-Engineering Launches Star Students** – Construction Executive, May 2008
- **Congratulations, Redmond High School** – PLTW State Affiliate Director Tim Brower has submitted the paperwork for Redmond’s PLTW certification. The process requires schools to demonstrate that they meet PLTW’s quality standards in professional development of teachers and counselors; the implementation of curriculum using required equipment and software; the formation of a Partnership Team, and several other quality criteria. Schools are re-certified every 5 years.

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