



Media Kit

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# IISME Summer Fellowship Program

June 18th-August 10th, 2007

## IISME Background

Industry Initiatives for Science and Math Education (IISME) was founded in 1985 by a consortium of San Francisco Bay Area companies in partnership with the Lawrence Hall of Science at the University of California at Berkeley. IISME seeks to transform teaching and learning through industry-education partnerships. We provide teachers with experiences and tools they need to adapt their practices and change their schools so that all students are prepared to be lifelong learners, responsible citizens, and productive employees.

IISME exists to address the critical need for a strong, highly-skilled workforce in mathematics, science and

technological fields. This industry-education partnership focuses on teachers as the primary agents for effecting meaningful change in mathematics and science education.

IISME Fellowships provide K-16 teachers with unique, meaningful professional development by exposing them to today's industry and research environments. IISME Fellowships have a positive impact on teacher retention, teacher leadership, National Board Certification rates, and teacher performance in the classroom. IISME has impressive evidence of the transformational effect of these Summer Fellowships on teachers and their students.

Furthermore, IISME has a proven track record of helping teachers boost their knowledge of the subjects they teach and of helping schools retain qualified teachers.

Through the Summer Fellowship Program, IISME also provides companies and universities with skilled, cost-effective professional summer employees. Sponsors experience a direct way to reach their future workforce through one-to-one contact with teachers. IISME has awarded 2,375 Fellowships to teachers from 561 schools in the Bay Area, impacting more than 1.6 million students. This summer, fifty-two sponsors are supporting 188 teachers, including 35% from high needs schools.

## The IISME/SVLG Partnership: Enhancing Science and Math Education

Silicon Valley Leadership Group (SVLG) partners with IISME as part of its mission to help ensure that the education system in California and the Silicon Valley produces world class graduates and fosters academic excellence and high quality instruction, particularly in science and mathematics.

SVLG's members are hosting 159 Fellowships within their organizations in 2007. Fifty-five SVLG members have pledged to support IISME this year, either by hosting teachers, providing

financial or in-kind support, or both.

"Our region's competitiveness and success depend upon the quality of our workforce," says SVLG President and CEO, Carl Guardino. "Our members participate in IISME's Summer Fellowship Program not only to benefit from highly skilled teachers with fresh perspectives, but more importantly to have a direct and positive impact on local math and science education."



## Improving the Environment



### Affymetrix

**Environmental Health & Safety Assistant:** Assist with updating the chemical inventory tracking and Material Safety Data Sheet (MSDS) management systems. Develop chemical hazard summary sheets. Perform additional EHS tasks and projects as needed.

Contact: Andrew Noble, Sr. Manager of Corporate Communications  
andrew\_noble@affymetrix.com, (408) 731-5571



### Agilent Technologies

**Environmental Health & Safety Coordinator:** Take inventory of chemicals stored on-site & update the excel spreadsheet. Update all the sections of the site's Hazardous Material Management Plan, get the plan printed & distributed to stakeholders by the end of the summer.

Contact: Scott Nixon  
scott\_nixon@agilent.com, (408) 553-7817



### New United Motor Manufacturing, Inc.

**Environmental Affairs Fellow:** Improve NUMMI's environmental training program to meet Toyota's standards. This project will include investigating the programs at other Toyota facilities, standardizing NUMMI's training program, and developing a system of recording training and performance competency.

Contact: Stuart Rupp, Environmental Health & Safety Coordinator  
srupp@nummi.com, (510) 770-4010



### Silicon Valley Leadership Group

**Plug-in Hybrid Vehicles Research Lead:** Work with companies and volunteers on the Bay Area segment of a statewide Plug-in Hybrid Electric Vehicles research project that will help assess consumer use and recharging patterns.

Contact: Laura Stuchinsky, Director, Transportation & Land Use  
lstuchinsky@svlg.net, (408) 501-7851



## Contributing to Corporate Training and Marketing

### IBM

**Software Development Fellow:** Work with software developers, writers, editors, and production personnel to gather, write, improve, test and deliver information for database software products. Create step-by-step information useful as extended examples, tutorials, and scenario information as well as participate in or observe usability tests of this information.

Contact: Holly Parker-Coney, IBM Communications, Silicon Valley  
hparker@us.ibm.com, (408) 463-4374



### National Semiconductor

**Marketing Fellowship:** Responsible for portfolio and product level competitive analysis for high speed and precision amplifiers. The fellow will compare newly released products from our competitors with products from National Semiconductor. The fellow will identify any potential strengths, weaknesses, trends, and gaps.

Contact: Tushar Patel, Product Marketing Engineer  
tushar.patel@nsc.com, (408) 721-7759



### Solectron

**Training Developer:** Develop user training materials for new component system in development. Research global environmental directives, create training material presenting those directives, create a summarized list of requirements for meeting those directives. Document the requirements for collecting environmental inspection data on incoming parts and managing that data in a central database.

Contact: David Castro, Senior Manager, Global Material & Component Engineering  
davidcastro@ca.slr.com, (408) 963-2509

## Developing Classroom Curriculum

### AC Transit

**Hydrogen Education Outreach:** Work on the revision of a module for high school students on hydrogen and fuel cells and introduce the materials to teachers. Teacher will interact with curriculum developers at the Lawrence Hall of Science and professionals in the transportation industry at AC Transit.

Contact: Jaimie Levin, Director of Alternative Fuels Policy and Marketing  
JLevin@actransit.org, (510) 891-7244

Barbara Nagel, Director Science Education for Public Understanding Program  
bnagle@berkeley.edu, (510) 642-8718



### Google

**Google for Educators Fellow:** Design curriculum and lesson plans for using Google Earth (TM) service in the classroom, and project plan mapping out the use of Google Docs & Spreadsheets(TM) application to increase institutional collaboration in education.

Sean Carlson, Global Communications & Public Affairs  
seanc@google.com, (650) 253-1173



### Hiller Aviation Museum

**Aeronautics Curriculum Developer:** Write aeronautics lessons to meet California 8th grade science education standards and national education standards for grades 5-8 that are appropriate for museum field trip activities as well as pre and post-visit classroom activities. These activities will include NASA aeronautics research content and will be designed for Hiller Aviation Museum's field trip program.

Contact: Christina O'Guinn, Lead, Informal Education  
christina.m.oguinn@nasa.gov, (650) 604-2891



### Stanford University

**Huang Lab Research Fellow:** Work in a multimedia development group to research content design and develop learning modules for a high school life sciences curriculum such as biochemistry or bioengineering.

Contact: Cammy Huang, Director of Scientific Outreach, WGLN  
cammy.huang@stanford.edu, (650) 498-4002



## Building Websites

### Lawrence Berkeley Laboratory

**Web Tutorial Fellow:** Create a web tutorial for the DNA analysis tools at <http://greengenes.lbl.gov>. Tutorial will include sample data, descriptions of analysis tools, advice on setting user-definable parameters and screen shots of appropriate steps.

Contact: Todd DeSantis, Center for Environmental Biotechnology  
tdesantis@lbl.gov, (510) 761-6720



### Lockheed Martin Space Systems Company

**Web Developer for Technical Operations Websites:** Work closely with the Advanced Technology Center's Technical Operations staff to update the Technical Operations website. The teacher will work with content providers to gather and update web content, edit content and ensure it is web ready.

Contact: Steve Tatum, Sr. Manager, Communications  
stephen.o.tatum@lmco.com, (408) 742-7531



### Synopsys, Inc.

**Web-Based Knowledge Management Team:** Responsible for writing, researching & publishing user support and training documentation for IT applications and systems. Work with IT technical teams to update, document & publish the information into HelpNET self-service support knowledgebase and other resources. Assist with IT customer communications events.

Contact: Terri Oropeza, IT Manager, Global Solutions Center  
oropeza@synopsys.com, (650) 584-1825



## Performing Scientific Research

### Applied Biosystems



**Molecular Biology Fellow:** Learn about general molecular biology techniques including DNA sample prep, PCR, DNA sequencing using the state-of-the art instruments and basic sequence data analysis. Fellow will contribute to the further understanding of how DNA sample prep methods and DNA quality/quantity contribute to data quality and the success of the experiments.

Contact: Lin-Zuo Pham, Director, GA Sequencing Chemistry R&D  
phamln@appliedbiosystems.com, (650) 638-5293

### Buck Institute for Age Research



**Parkinson's Disease Research Fellow:** Participate in a research project to specifically understand the relationship between selected proteins modified by Parkinson's disease/Oxidative stress conditions. The teacher will be able to transfer the techniques/ information learned during this fellowship period to their high school classroom setting.

Contact: Jyothi Kumar, Staff Research Investigator  
jkumar@buckinstitute.org, (408) 839-0691

### Varian Medical Systems



**Research Associate:** Run measurements on part of an electro-mechanical device that's used to shape a radiation beam for cancer care. Compile, analyze, and report on the collected data. Suggest and implement improvements to the measurement protocol. The results will be used to give more consistency in beam delivery, and to reduce the effort required by personnel to make adjustments to the affected components.

Contact: David Buseck, Product Support Engineer  
david.buseck@varian.com, (408) 839-0691

## Other Exciting Projects

### Hewlett Packard



**Government Affairs Fellow:** Collaborate with members of the HP Legal-Government Affairs team to develop and implement communications vehicles designed to advance HP's legal, public policy and political agenda. Specifically learning about Web 2.0 features (e.g., Podcasts, Blogs, wikis), how other organizations within HP are utilizing such tools, and how to increase the effectiveness of those websites.

Contact: Shawna Holmes, Sr. Manager of Strategy, Operation and Communications, HP Government Affairs  
shawna.holmes@hp.com, (650) 857-2523

### Intel Corporation



**Ultra-Mobile Platforms Marketing Fellow:** Support the team's efforts with 3rd party vendors to optimize their solutions for this exciting new class of device. They support our launch and go-to-market planning efforts. Ultra-Mobility Group is developing silicon and solutions for a new class of products that deliver on the promise of the Internet in your pocket.

Contact: Mark Pettinger, External Affairs & Media Relations Manager  
(408) 765-4970

### San Francisco 49ers



**Football Operations Summer Research Fellow:** In professional football, a fascinating array of statistics lies behind every touchdown and tackle. The summer research fellow will have the opportunity to work closely with the Football Operations Department of the five time Super Bowl champion San Francisco 49ers to analyze data and discover trends that will give the team a strategic advantage on the gridiron.

Contact: Katherine Madariaga, Publicity Manager  
katherine.madariaga@niners.nfl.net, (408) 562-4957

[www.iisme.org](http://www.iisme.org)

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