



“EDUCATION IS AT THE HEART OF OUR ABILITY TO STAY COMPETITIVE IN THE GLOBAL ECONOMY. THE KEY TO SUCCESS IS MAKING THE INVESTMENT NECESSARY TO ENSURE THAT OUR TEACHERS ARE PREPARED TO INSPIRE STUDENTS TO CREATIVITY AND ACHIEVEMENT.”

— MIKE SPLINTER, PRESIDENT & CEO  
APPLIED MATERIALS

#### HOW IT WORKS/TIMELINE

- BEGINNING IN THE FALL, SPONSORS PLEDGE TO HOST A SPECIFIC NUMBER OF FELLOWS AND IDENTIFY MENTORS TO SUPERVISE THEM.
- MENTORS CREATE AND SUBMIT PROJECT DESCRIPTIONS TO IISME BY MARCH.
- IN THE SPRING, TEACHERS REVIEW PROJECT DESCRIPTIONS ONLINE AND EXPRESS INTEREST IN THOSE THAT FIT THEIR STRENGTHS AND SKILLS.
- MENTORS REVIEW SELECTED TEACHER RESUMES TO IDENTIFY CANDIDATES WHO FIT THEIR PROJECT NEEDS.
- MENTORS INTERVIEW CANDIDATES AND MAKE HIRING DECISIONS BY MAY.
- EIGHT-WEEK FELLOWSHIPS BEGIN IN MID-JUNE AND END IN MID-AUGUST.

INDUSTRY INITIATIVES FOR SCIENCE AND MATH EDUCATION (IISME) EXISTS TO ADDRESS THE CRITICAL NEED FOR A STRONG, HIGHLY-SKILLED WORKFORCE IN THE STEM FIELDS (SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH). THIS INDUSTRY-EDUCATION PARTNERSHIP FOCUSES ON TEACHERS AS THE PRIMARY AGENTS FOR EFFECTING MEANINGFUL CHANGE IN OUR SCHOOLS.

## Shaping Tomorrow's Workforce

For the past 27 years IISME has placed K-16 teachers in 8-week Fellowships to provide them with exposure to our ever-changing industry and research environments.

Through the Summer Fellowship Program, IISME 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 local teachers.

The Teacher Fellows spend 90% of their time working on meaningful and relevant projects for their host organization and 10% of their time on IISME professional development including an Education Transfer Plan to bring back to their classroom. IISME Teachers return to school able to leverage their new skills and experiences into powerful lessons and updated curriculum for their students.

"IISME has strengthened the bridge between industry and education to improve the quality of science, math and technology instruction in our local schools. We look forward to once again providing teachers with a hands-on working environment to inspire our next-generation of scientists and engineers."

— Kevin Bilger, Vice President and General Manager,  
Lockheed Martin Space Systems Company



### PROGRAM IMPACT

- Over 200 Sponsors have offered 2,970 IISME Summer Fellowships to teachers.
- IISME Teachers have positively impacted more than 2 million students.
- 98% of Mentors report that they were pleased with the quality of work their Fellow produced.
- 99% of Teacher Fellows report that they gained a greater understanding of the applications of science, math or technology in everyday life.
- In 2010 IISME expanded to Southern California.

### NATIONAL RECOGNITION

- Selected as one of 70 founding partners of the national "100K in 10" movement committed to recruiting, developing and retaining 100,000 excellent STEM teachers over the next 10 years.
- Business-Higher Education Forum recognized IISME as a "clearly effective educational program" and "a strategic investment in education."

### IISME SUMMER FELLOWSHIPS

- Offer Sponsors eager and skilled temporary professional employees to work on a project.
- Supply teachers with new knowledge and strategies for reaching their students.
- Provide a direct way for organizations to reach their future workforce through one-to-one contact with teachers.
- Reignite teachers' passion for their subject.
- Motivate thousands of students with new, more relevant curriculum.
- Retain teachers in the classroom at a higher rate than their colleagues.
- Expand teachers' knowledge of skills needed for 21st century careers.

### FOR MORE INFORMATION

For more information about hosting a Teacher Fellow at your organization please contact:

- Tisha Bacigalupi 408-553-2239; [tbacigalupi@iisme.org](mailto:tbacigalupi@iisme.org)
- Jennifer Bruckner 408-553-2249; [jbruckner@iisme.org](mailto:jbruckner@iisme.org)
- Laura Henderson 408-345-8248; [lhenderson@iisme.org](mailto:lhenderson@iisme.org)

## PROGRAM COST

Fellowship hosts provide most of IISME's funding. The cost is \$11,500 if the Fellow is employed directly by the Sponsor or \$13,000 if IISME is designated as employer of record. This includes \$8,200 in stipend and grants IISME Teacher Fellows earn. Through these funds, IISME Sponsors also support year-round educational services to enhance the effectiveness of Fellowships as teacher professional development experiences.



## PROJECT EXAMPLES

### CORPORATE TRAINING

#### Cisco Systems

Analyzing user data to identify user training gaps, developing short e-learning tutorials for key user competencies.

### EDUCATION OUTREACH

#### Intel Corporation

Providing input on the educational value and various usages for products, helping development of educational software.

### ENGINEERING

#### Lockheed Martin Space Systems Company

Assembling mechanical pieces, verifying correctness of the assembly, testing and debugging system.

### ENVIRONMENTAL, HEALTH & SAFETY

#### MiaSolé

Conducting noise and air sampling and analyzing the data for a material safety sheet compilation.

### HUMAN RESOURCES

#### Applied Materials

Researching current global recruiting trends, comparing industry practices and recommending process updates.

### INFORMATION TECHNOLOGY

#### Synopsys, Inc.

Helping to improve the training and support materials for IT Applications and Systems for Synopsys employees.

### LAB RESEARCH

#### Life Technologies

Expressing and purifying several proteins that will be used in generating new workflows for synthetic biology.

### MARKETING

#### Coherent, Inc.

Creating email blasts, web pages and other promotional campaigns, tracking results of each campaign.

### SALES

#### MoSys, Inc.

Organizing sales leads, creating sales collateral, updating presentation materials and producing video product demos.

### WEBSITE DESIGN

#### Palo Alto Research Center (PARC)

Updating internal site web pages, including creating new content from technical notes.

## ADDITIONAL PROGRAM SPONSORS

Agilent Technologies  
Amgen Foundation  
Bank of America Foundation  
S.D. Bechtel Jr. Foundation  
Brocade  
Cisco Systems Foundation  
City College of San Francisco  
DeVry University  
EMC Corporation  
Fluor Foundation  
Frieda C. Fox Family Foundation  
Google Community Grants Fund of  
Tides Foundation

Gordon Biersch Brewing Company  
Hewlett-Packard Company  
IBM  
Integrated Device Technology, Inc.  
Intel Corporation  
Intel Foundation  
Juniper Networks Foundation  
Life Technologies Corporation  
Medtronic Foundation  
Mentor Graphics Foundation  
Merit Resource Group  
Microsoft Corporation  
Monta Vista High School

National Science Fdn (via SMCCD)  
Nordson Foundation  
Rockwell Collins Charitable Corporation  
Salesforce.com Foundation  
SanDisk Foundation  
Santa Clara County Office of Education  
Seagate Technology  
Stanford University  
TSMC America  
WebEx  
Wells Fargo  
Western Digital Foundation

"MY FELLOW'S SUMMER PROJECT PROVIDED SOLID SCIENTIFIC DATA TO SUPPORT A CHANGE IN OUR RECOMMENDED PERIODIC MAINTENANCE PROCEDURES, SHORTENING THE TOTAL SEQUENCE TIME FOR SERVICE ENGINEERS. THIS CHANGE WILL SAVE MORE THAN \$200,000 PER YEAR IN LABOR COSTS ON MACHINES THAT ARE UNDER SERVICE CONTRACT."

— DAVID BUSECK, PRODUCT SUPPORT ENGINEER, VARIAN MEDICAL SYSTEMS

## 2010/2011 FELLOWSHIP SPONSORS

Adobe Foundation  
Aerospace Corporation  
Agilent Technologies  
Applied Materials, Inc.  
BD Biosciences  
California Water Service Co.  
Cisco Systems, Inc.  
Citrix Systems, Inc.  
Coherent, Inc.  
Cordis Corporation  
Cypress Semiconductor  
Dow Chemical Company  
EMC Corporation  
Fairchild Semiconductor  
FUJIFILM Dimatix, Inc.  
Genentech, Inc.  
Gladstone Institutes

Hewlett-Packard Company  
IBM  
Integrated Device Technology, Inc.  
Intel Corporation  
Intevac, Inc.  
Intuitive Surgical, Inc.  
KLA-Tencor Corporation  
KQED  
Lawrence Berkeley National Laboratory  
LifeScan, Inc.  
Life Technologies Corporation  
Lockheed Martin Information Systems  
and Global Services  
Lockheed Martin Space Systems Co.  
Lucile Packard Children's Hospital  
Mattson Technology  
MiaSolé

MoSys, Inc.  
National Semiconductor Corporation  
Nordson ASYMTEK  
Palo Alto Research Center (PARC)  
PLX Technology  
Renesas Electronics America  
SanDisk Corporation  
Santa Clara University  
SAP Labs  
SETI Institute  
Silicon Valley Leadership Group  
SolFocus, Inc.  
SRI International  
Stanford University  
SVB Financial Group  
Synopsys, Inc.  
University of California, Berkeley  
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