



**SCI-FY Summer Institute
UC Berkeley, August 1st – August 12th, 2011**

SCIENCE FOR YOUTH

IT LEADERSHIP PROGRAM

ABOUT SCI-FY

SCI-FY, a project of the International Computer Science Institute (ICSI), encourages students of color and women to develop skills, leadership, and an interest in the fields of computer science, engineering, information technology, and the sciences. SCI-FY works with twenty-five middle school students between the 6th and 8th grades. These youth are self-motivated and are on their way to becoming future engineers, technologists, scientists, and leaders of our global community. SCI-FY facilitates the development of skills in problem solving, teamwork, lifelong learning, multiple ways of communicating, and technological literacy. We serve students in the surrounding areas that include Alameda, Contra Costa, and San Francisco counties.

We have several programs that work together to create a support pipeline that identifies, recruits and retains promising new leaders who are women and otherwise underrepresented. Students engage in hands-on, inquiry-based projects and activities that challenge them to integrate their conceptual and procedural understanding. The intent of SCI-FY is to cultivate in students an understanding of scientific thinking, the design process of engineering, the power of mathematical problem solving, and the application of computer modeling and programming to solving real-life problems. We believe this exposure will help encourage historically underrepresented ethnic groups and women to pursue degrees in higher education and careers in science, technology, and engineering fields.

A COMPONENT OF BFOIT

SCI-FY is the middle school component of Berkeley Foundation for Opportunities in Information Technology (BFOIT). BFOIT was founded in 1997 in order to assist disadvantaged and underrepresented youth in pursuing higher education in computer science and information technology fields in public universities and colleges in California. The BFOIT Summer Institute for Future Computer Scientists, brings twenty-five high school students from the surrounding counties to the Berkeley campus in order to learn some fundamentals of computer programming, discuss educational and career opportunities, and experience the university environment.

SCI-FY leadership training program consists of:

- Two-week Technology Training Summer Institute held in August at UC Berkeley. The institute is designed to train students in the process of inventing technologies and computer programming. They meet with professional experts, academics, and researchers in the fields of information technology, computer science, science, mathematics, and engineering. These professionals come from the educational, nonprofit, economic, social, and political sectors.
- Workshops, lectures, seminars, and informal discussions where students learn about vital issues, acquire skills, and develop strategies that can be applied to meet interests and needs in their communities.
- Cultural activities such as visits to museums, media presentations, lectures, and conferences.
- Academic year meetings that provide students an opportunity to assemble every other month to continue their learning and exploration of fun activities and projects.

APPLICANT REQUIREMENTS

The applicant must:

- Be a middle school student (entering the 6th or 7th grade) in the participating region and maintain a GPA of 3.0 or above.
- Be part of and involved in a social organization that already intends to support student learning and achievement within educational structures. This can include an after school enrichment program or similar programs in the community.
- If selected, students must attend and participate in the Summer Technology Training Institute as well as attend meetings throughout the academic year.

APPLICATION INSTRUCTIONS

The programs will take into account academic performance, public service and interest in the discovery of mechanisms that serve the needs and interest of an ethnic and socially diverse society. To be considered for the program, an applicant must submit the following:

1. Application Form (attached). Answer all questions and sign the form. Please type or write as neatly as possible.
2. Personal Statement: A typed statement of 1-2 pages describing your personal interest in the development of new and existing technologies. Include your long term professional or personal goals and why you are interested in this program. Attach the personal statement to the Application Form and sign both.
3. Letter of Recommendation: The letters should deal with your learning abilities and interest in serving the public. A teacher, academic counselor, and/or social program coordinator could write the letter of recommendation.
4. School Transcript. (Most current copy.)



Follow instructions outlined in the accompanying brochure. Please type or write legibly.

Name				Parent/Guardian			
Address		City	State	Zip Code	Phone Number		
Email Address				Birthday		Gender (check one)	
						<input type="checkbox"/> M	<input type="checkbox"/> F
Current School				Place of Birth			
Grade	<input type="checkbox"/> 6 th	<input type="checkbox"/> 7 th	<input type="checkbox"/> 8 th	Ethnicity (check one)			
				<input type="checkbox"/> African American		<input type="checkbox"/> Chicano/Latino	
GPA				<input type="checkbox"/> Filipino		<input type="checkbox"/> Native American	
				<input type="checkbox"/> Pacific Islander		<input type="checkbox"/> Other:	
List community activities:							
List scholastic or academic achievements:							
Indicate the name and title of the person submitting a recommendation for you.		Is the letter enclosed?		If not, indicate date the recommendation will be submitted.			
Can you commit to the following: 1) Meeting for a total of four times during Fall and Spring 2) Attending a two week session at UC Berkeley's campus from August 1st - August 12th, 2011?				<input type="checkbox"/> Yes		<input type="checkbox"/> No	
Attach a copy of your personal statement and current transcripts to this form							
<i>The information I have provided on this application and in any related material is complete and accurate; I agree to the time commitment to work with SCI-FY.</i>							
<i>Please make sure that your parent/guardian has read and signed this form:</i>							
Applicant Signature				Date			
Parent/Guardian Signature				Date			

Note: It is the responsibility of each applicant to make certain all items arrive at the BFOIT office no later than April 15, 2011. We have rolling admissions. Please send it all to: Dr. Chris Harrison, BFOIT c/o International Computer Science Institute, 1947 Center Street, Suite 600, Berkeley, CA 94704. For questions, please call 510-666-2967.

CHECK OFF WHEN COMPLETE

Application form _____

1-2 page Essay _____

Current Transcript _____

Recommendation Letter _____

**** Applications are due April 15, 2011. ****

ACKNOWLEDGMENTS

BFOIT/SCI-FY would like to thank ICSI, U.C. Berkeley, the instructors, the speakers, and our supporters who allow this program to operate at no cost to the students. In particular, Guy Haas deserves an extra round of applause for leading the teaching efforts. In addition to private donations, these partners help us maintain our activities.



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