The CUSP Summer Enhancement Fellowship provides a competitive grant to assist C. P. Davis Scholars in securing structured work opportunities during the Summer 2011 that are in line with the Program’s mission and the student’s academic trajectory. Encouraging interdisciplinary career exploration and building upon Scholars’ developing academic interests, the fellowship is specifically designed to allow Scholars to pursue these critical experiences as early as their first summer. By financially supporting the exploration of academic questions and social issues through well-defined and formally-presented research projects and practicums, this fellowship fosters intellectual curiosity, the clarification of ideas and beliefs, an enhanced sense of participation in the academic community, and the opportunity to contribute to the community at large.

In partnership with the American Council of Engineering Companies-New York (ACEC-NY), CUSP created an ongoing, sustainable relationship with New York engineering firms interested in hiring rising sophomores, juniors and seniors from the Fu Foundation School of Engineering and Applied Science for summer practicums. This practicum complements an already rigorous engineering curriculum aimed to create a class of engineers better prepared to handle the challenges of a rapidly changing world. Applicants will select the firm where they would like to work for the summer. All eligible Scholars will be evaluated according to their credentials, preparation, and interests. This process may require an interview with the firms. CUSP-ACEC Program recipients are compensated with a competitive practicum salary.

The CUSP-ACEC Program is competitive and highly selective. Applications will be evaluated by a Selection committee on the basis of the applicant’s overall fulfillment of the selection criteria. Incomplete applications and candidates who do not meet the criteria will not be considered. Interviews for selected proposals will take place in early February 2011. Applicants will be notified of a decision by email. Applications may be picked up at the Columbia Undergraduate Scholars Program (CUSP) Office in the Center for Student Advising in 403 Lerner Hall. Completed applications for the CUSP-ACEC Summer 2011 Program must submitted to the CUSP Office no later than Friday, January 28th, 2011 at 12pm.

All Scholars receiving the CUSP Summer Enhancement Fellowship will be required to present the results of their practicum experience at a Fall Symposium and submit a reflection/evaluation to the CUSP Office. Formal reflections from the students and practicum supervisors will be required at the end of the summer.
Name: ____________________________ Class Year: __________

UNI: ________________________________ Cell Phone __________

GPA: ___________ Major/Concentration _______________________

Please answer each of the following questions. Please type your answers.

1. Explain your interests in working with the firm you have selected. What do you intend to learn from this experience? How does this align with your academic and career interests?

2. Describe one CUSP activity or event that has caused you to reflect more deeply on the Program’s Pillars (Academic Excellence, Leadership, Global Awareness, and Civic Engagement). What general questions do you currently have about the pillars that you hope to answer through this summer experience?

3. What are the three most significant courses (including high school, study abroad, and higher education institutions) you have taken in preparation for this upcoming summer experience? Please explain.

4. Why should you be considered for this fellowship?

Please check required attachments included in this application:

- Application Information Form
- Official Columbia University Transcript
- Resume
- Budget Proposal Form
- 2 Letters of Reference (1 must be an academic letter)
- CUSP-ACEC Partnership Form
CUSP SUMMER ENHANCEMENT FELLOWSHIP
AMERICAN COUNCIL OF ENGINEERING COMPANIES
OF NEW YORK (ACEC-NY) PROGRAM
CUSP-ACEC PROGRAM PARTNERSHIP LIST FOR SUMMER 2011

INDICATE TOP CHOICE:
● CH2M Hill
● Fay Spofford & Thorndike of NY
● Gannett Fleming Engineers and Architects, P.C.
● Hazen and Sawyer, P.C.
● Lilker Associates

1. CH2M Hill (www.ch2m.com)
CH2M Hill, Inc. (“CH2M HILL”) started business in Corvallis, Oregon in 1946 and has grown to where it serves clients around the world from more than 165 locations on 6 continents. CH2M HILL is an employee-owned global project delivery company providing integrated services to public and private clients in the fields of water, environment, transportation, industrial facilities, and related infrastructure. We provide a full range of services needed to move projects from concept to successful operation. Our services include engineering (all disciplines), consulting, planning, project development/finance, program management, design, construction management and operations. CH2M HILL’s family of companies employs more than 19,000 employees worldwide with a gross annual income of approximately $4.5 billion. For the third time, in 2008, CH2M HILL was ranked one of Fortune Magazine’s “100 Best Companies to Work For”.

2. Fay Spofford & Thorndike of NY (www.fstinc.com)
FAY, SPOFFORD, & THORNDIKE of New York, Inc. is a consulting engineering and planning firm which provides professional engineering services over a broad spectrum of disciplines which include Civil, Structural, Transportation, Environmental, Marine, Electrical, and Mechanical Engineering. Our projects include highways and bridges; transportation facility planning; airports; transit systems; waterfront facilities; wastewater collections, treatment and disposal systems; storm drainage; water supply, distribution, and treatment facilities; environmental impact document and permit preparation; and military, commercial, and industrial buildings.

Gannett Fleming has evolved from a three-person firm in 1915 to currently employing more than 1,900 highly qualified, dedicated individuals that provide an array of services in the transportation, water/wastewater, facilities, environmental, and information technology disciplines. Our more than 50 offices throughout the United States and Canada allow us to provide consulting engineering, planning, and construction management services in almost every geographical area. Gannett Fleming has completed thousands of assignments in all 50 states, the District of Columbia, the U.S. Virgin Islands, Puerto Rico, and more than 50 countries. Disciplines of practice: civil, structural, geotechnical, mechanical, electrical, plumbing, architecture, construction management, planning, information technology, vertical transportation, facilities management, environmental science and site remediation in the infrastructure and building industry (transportation, transit, water/wastewater, facilities).

Hazen and Sawyer provides environmental engineering services to public and private clients in the fields of water supply, treatment and distribution; wastewater collection and treatment; and stormwater management. Founded in 1951 we've completed thousands of successful assignments, won scores of awards and earned the trust of some of the world's most demanding clients. We have 24 offices in the U.S. and Latin America and a multidisciplinary staff, many with leadership roles in professional organizations. In 2008 Engineering News Record ranked Hazen and Sawyer 17th of the top 500 design firms in the country in the area of water and 18th in the area of sewer/waste. This practicum is best suited for earth and environmental and/or civil engineering students.

5. Lilker Associates (www.lilker.com)
Provides mechanical & electrical consulting engineering in HVAC, plumbing, electrical, and fire protection for new and existing buildings. Services include preparation of plans, specifications, surveys and reports. Technology solutions group, Lilker's wholly owned subsidiary provides consultation and design for telecommunications, security and audio visual systems.

6. Malcom Pirnie, Inc. (www.pirnie.com)
Malcom Pirnie, Inc., a century-old environmental consulting firm, provides governmental and industrial clients with comprehensive services in water and wastewater engineering, solid and hazardous waste management, environmental sciences and, through its Red Oak Consulting Division, management and IT consulting. With a diversified staff of over 1,800 engineers, scientists and consultants in 60+ offices nationwide, Pirnie has won over 200 professional awards for project excellence.

7. Murray Engineering (www.murray-engineering.com)
Established in 1998, Murray Engineering, P.C. provides a full range of design development and engineering services for new and existing buildings. Our diverse project list includes new construction as well as the evaluation, maintenance, alterations and preservation of existing structures. We have had the opportunity to work on large, prestigious retail spaces on Madison Avenue, multi-family housing in the New York/ New Jersey area and numerous institutional projects such as hospitals and schools. Throughout our ten years of existence, Murray Engineering had demonstrated a passion for building envelope science and sustainable construction.

8. TranSystems (www.transystems.com)
TranSystems has 1,400 professionals in 45 offices in the US which provide architecture, engineering and planning; management and supply chain consulting; real estate; and security services to all sectors of the transportation industry. The New York office’s 30 personnel specialize in bridge inspection, remediation and design. Our construction inspection services to both private and public sector clientele. We have over 650 dedicated employees in ten offices throughout the northeast, Florida, and Nevada. Our New York City office provides all four of our core disciplines: site/civil, geotechnical, surveying and environmental engineering services.

Weidlinger Associates, Inc. has completed its fifth decade of leadership in structural and civil engineering and applied science applications. Since 1949 the firm has provided services to clients worldwide, both as prime designers and as key participants on A/E teams. Regional offices are located in key cities on both coasts. The firm’s four main divisions, Structures, Transportation, Applied Science and the hart/Weidlinger Group share information and their interaction contributes to the success of the firm as a whole. Weidlinger Associates has received numerous awards and recognition for technical excellence, creative design and scientific achievements.