General Programmatic Terms and Conditions for the Computing Community Consortium (CCC): Defining the Large-Scale Infrastructure needs of the Computing Research Community (NSF 06-551) Cooperative Agreement

1. **Key Personnel:** Except for the Principal Investigator(s) (PIs) or Co-PIs identified in this award, requests to make any changes to personnel, organizations, and/or partnerships specifically named in the proposal, that have been approved as part of this award, shall be submitted in writing to the cognizant NSF Program Official for approval prior to any changes taking effect. Requests for prior approval of changes to the PI(s) must be submitted through FastLane for review by the Cognizant NSF Program Officer and approval by an NSF Grants Officer.

   Any changes to contractors/consultants must be submitted, in advance, and with all needed documentation, to the NSF cognizant Program Official for review and approval. No changes may be implemented prior to formal, written approval by an NSF Program Official.

   The cognizant NSF Program Official, in consultation with the Computing Research Association (CRA) will review and approve the appointment of all key personnel, including the CCC Council Chair, CCC Council members, GENI Science Board members, and other key groups as identified over time.

2. **Project/Project Description:** The purpose of the Computing Community Consortium (CCC) is to provide a voice for the national computing research community. The CCC will facilitate the development of a bold, multi-themed vision for computing research and education and will communicate that vision to a wide-range of major stakeholders.

3. **Project Governance:** The Awardee will ensure that an efficient and effective project governing structure is in place throughout the award period to support all critical or significant project activities.

   - The Computing Research Association (CRA)[1] serves as the awardee organization and will provide leadership to the CCC. The CRA is a membership organization that represents academia, industry, and government. The CCC will be a standing committee of the CRA. The

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[1] The mission of the Computing Research Association (CRA) is to strengthen research and advanced education in computing and allied fields. http://www.cra.org/main/cra.mission.html

CRA Board will select the CCC Council Chair and members in consultation with the NSF Program Official.

- The CCC Council Chair[2] will lead the CCC Council consisting of 12-15 people. The CCC Council Chair is responsible for leading the CCC, both in its processes and in communicating the CCC's proxy role to the computing research community.

- The CCC Council members advise the CCC Council Chair on all aspects of research areas of interest from the research community. The CCC Council is a diverse representation of the computing field. CCC Council members will serve three-year terms, with appointment staggered so that one third of the positions are open every year. Members will be eligible to serve at most two consecutive terms.

- The CCC will identify a group of community leaders who collectively represent the computing community's scientific research and education interests in GENI; the group will be named the GENI[3] Science Council (GSC). The GSC will work with the broad computing community to gather input and to integrate and synthesize the community's interests in a coherent Science Plan for GENI.

4. **Governing Responsibilities:** The Awardee will ensure efficient and effective performance of all project responsibilities by the governing components throughout the award period.

The CRA has a long history of working with the computing research community and is uniquely positioned to provide leadership to the CCC. The CCC will operate under the auspices of the CRA.

Governing Components	Responsibilities
CRA	• Serves as the Awarding Organization • Point of contact for NSF Program Officials • Provides leadership to the CCC • Appoints CCC Council Chair in consultation with the NSF Program Official
CCC Council Chair	• Leads CCC Council • Point of contact with the CRA Board • Works with NSF Program Officials
CCC Council	• Prepares and executes a strategic plan

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[2] The CCC Council Chair will be selected by the CRA Board in consultation with the community.
[3] GENI (Global Environment for Networking Innovations) is a facility concept being explored to catalyze research on network architectures, services and applications.

	with goals to increase participation of faculty from a wide-range of academic institutions, researchers in government agencies, and researchers in industry; stimulate, coordinate, and oversee focus groups in identifying, prioritizing, and synthesizing the topical areas of interest from computing research community; • Works with the NSF CISE Advisory Committee to ensure alignment with CISE programs and activities • Engages academia, industrial organizations in the U.S. and internationally, and government agencies to form alliances and partnerships
GENI Science Board	• Leads the development of the GENI Science plan • Accepts input from the broad research community

5. **Reporting Requirements:** The Awardee will provide ad hoc and regular reports as designated by the NSF cognizant Program Official with content, format, and submission time line established by the NSF cognizant Program Official. The Awardee will submit all required reports via FastLane using the appropriate reporting category; for any type of report not specifically mentioned in FastLane, the Awardee will use the "Interim Reporting" function to submit reports.

The awardee will submit all reports and certifications to NSF via FastLane on a quarterly basis. The awardee will submit highlights of the CCC's activities to NSF at the request of the NSF Program Official and will publish up-to-date accomplishments and activities on the CCC website.

TYPE OF REPORT	Time	Content
Interim Report	Quarterly	• Update of current activities • Propose activities for the next quarter
Strategic Plan	2 months from award date	• A plan with goals and intended actions to increase participation of faculty from a wide-range of academic institutions, researchers in government agencies, and researchers in industry; stimulate, coordinate, and oversee

		focus groups in identifying, prioritizing, and synthesizing the topical areas of interest from computing research community. The strategic plan must be updated annually
Implementation Plan	Annual (as part of the Annual Report)	• A gantt chart specifying major activities, key milestones, and key outcomes of activities
Annual Report	Annual	• Cumulative report that must summarize and strategically analyze the quarterly reports including needed revisions to the CCC strategic plan for review and approval by the NSF cognizant Program Official
Special Reports	Per NSF Request	• Specific data requested by NSF Program Official

6. **Awardee Support of Ongoing Management and Oversight:** The Awardee will ensure full commitment and cooperation among the governing structure components and all project staff during all ongoing NSF project management and oversight activities. The awardee will ensure availability of all key institutional partners during any desk or on-site review as well as timely access to all project documentation.

The CCC Council will attend meetings (as requested) organized by the NSF Program Official to discuss pertinent issues associated with outreach and education activities conducted by the CCC. The semi-annual meetings are intended to identify innovative means to approach problems and opportunities for the CCC.

The CCC will create a web page describing the mission of the CCC. The web page will become the repository of all outreach activities conducted by the CCC.

The CCC will create and maintain a database of quantitative indicators of outreach activities (e.g., workshops, conferences, number of outreach activities, etc.). Specific details concerning the database will be determined by NSF and will be provided to the CCC. The CCC must seek to embrace all fields and sub-fields of computing, industry, and government laboratories and centers.