



GPO Solicitation 2

For discussion; feedback encouraged.

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Main Goals for Solicitation 2

(Which Risks are We Reducing?)

- Security design and analysis for GENI
- Experimental workflow prototypes
- Instrumentation and measurement prototypes
- Early tries at international federation
- Other good ideas

Efforts must fit into one or more of the existing
GENI control framework “clusters”



Estimated Funding Levels and Types of Subcontracts

Total funding estimate: up to \$3.5 million / year, for 3 years.
As always, subject to availability of funds.

Type of Work	Suggested Value / Year	Est. # Contracts
Analyses, papers, participation in working groups	TBD	TBD
Prototypes and integrations	TBD	TBD

Small subcontracts (analyses, etc.) will be reviewed by GPO internally; proposals for prototypes and integration trials will receive external panel peer review.

GPO expects to issue subcontracts as 1 year plus 2 option years.



Timelines (estimated, subject to change)

Dec. 15, 2008 Monday	Solicitation issues on geni.net
Feb. 20, 2009 Friday	Proposals due, 5 PM eastern
May 21, 2009 Thursday	Notification to those selected for potential subcontracts
Late summer, early fall	Subcontract funds arrive (subject to availability of funds)



Eligibility

- Existing / new GENI participants both welcome
- Organizations allowed
 - Academic, non-profit, for-profit, or individual
 - Strongly encourage academic / industrial teams, with academic organization as lead
 - Talk to GPO if you have questions
- Limitations on PIs etc
 - PI may be PI on only 1 proposal, but may appear on other proposals as senior personnel
 - One PI per proposal, but Co-PIs allowed



Strong preference given to . . .

- Joint Academic / Industrial teams
- Active participation of campus / regional infrastructure providers
(e.g., letter from campus CIO)



Subcontracts are NOT Research Grants

- Emphasis on concrete, near-term results
- Proposal must have technical merit, realism for management approach, and practical understanding of the effort.
- Specific deliverables and associated milestones must be clearly described.
- Funded efforts will receive ongoing but lightweight review for GENI-relevant progress
- Efforts with ongoing inability to make progress will be terminated



Intellectual Property Rights (IPR)

- All proposals must choose one of the following GENI IPR licenses and state so explicitly:
 - a) “This work is public, released for any use”
 - b) “We claim intellectual property in this work”
- For a) public availability
 - Work is given to the public domain
 - No restrictions on how it may be used
- For b) intellectual property claimed
 - No fee & no restrictions on use within the GENI project
 - Rights outside that context are reserved (e.g. commercial rights)
- You will sign the corresponding GENI IPR license as part of the subcontract award process; draft licenses will be posted soon
- Reviewers will give preference to “public” license work



Proposal Format and Contents

- Similar to the principal NSF proposal sections (bio's, project description, budget)
- Short project description section
 - 5 page max, for value < \$100 K
 - 10 page max otherwise (shorter is GOOD)
- Short but concrete budget for work & deliverables
- Required: PDF, 10+ point type, 1 inch margins



All Proposals must include

- Concrete deliverables (list them explicitly)
- Concrete schedules, with explicit milestones keyed to presentations and demonstrations at GENI Engineering Conferences (4 month intervals)
- Credible budget, directly linked to deliverables and schedule
- Agreement to either of the 2 GENI IPR Licenses (public, project)
- Participation in GENI Working Groups
- Travel to GENI Engineering Conferences, with participation in project progress reviews at these conferences
- A credible plan for broader impact, e.g., active collaboration with under-represented institutions, industrial interns, preparation of educational materials, etc.
- Quarterly reports, including copyright-free images and description of work performed (suitable for publication on web, in brochures, etc.)



Budget Justification – Cost reasonableness and realism

The objective of this criterion is to establish that the proposed costs are reasonable and realistic for the technical and management approach offered. A secondary goal is to assess the proposer's practical understanding of the effort. The technical effort estimate should be broken down to the design, development, integration, test and bug fixing, and method used for the estimation.

Subcontracts will be made based on the overall best value to the GENI Project and the community. The GPO may fund only certain aspects of proposals, if the proposal as a whole does not provide sufficient value for funding.

Budgetary submission should be by quarter and by year including but not limited to the following:

- Labor
- Equipment
- Travel
- Materials & supplies
- Other direct cost
- Fee proposed if any (maximum fee is 5%)



Proposal Submission & Review (1/2)

- Prototyping and integration proposals will be peer-reviewed, following a process much like conference paper reviews
- Final decision by GPO with NSF concurrence
- Reviewer Selection
 - GPO internally reviews small proposals (\$10-30K); review panels used for all larger proposals
 - Reviewers solicited through NetSE, WGs, community, etc.
 - GPO (+NSF) vets review group for balance
 - Conflict of interest rules per NSF
 - Reviewers sign 1-page GPO contract saying “no conflict of interest,” confidentiality; receive \$200 when reviews complete.



Proposal Submission & Review (2/2)

- Mechanics of the Panel Reviews (at home, no travel)
 - Reviewers download proposals from geni.net, self-check for conflicts of interest
 - Reviewers complete review forms on geni.net
 - Review panels, organized by GPO staff, meet by telecon to merge reviews into final panel review with rankings
- Subcontract Awards
 - GPO makes funding decisions based on rankings
 - GPO writes and submits proposal to NSF
 - All awards documented on geni.net within 1 month of contract negotiation completed



Merit Review Criteria (a)

- Intellectual Merit (no ordering):
 - Relevance to GENI Risk Reduction
 - Best Value – includes high impact, enables broad range of research, meets near-term goals for integration & trials, etc.
 - Type of IP license (*public* better than *project*)
 - Cost and schedule realism
 - Probability of success and high impact



Merit Review Criteria (b)

- Other criteria (no ordering):
 - Academic / industrial team
 - Active involvement of campus / regional infrastructure provider (e.g. letter from campus CIO)
 - Active involvement of under-represented institutions, geographic areas, etc.
 - Active involvement of under-represented communities
 - Additional mechanisms, e.g., involvement of high schools, interns, etc.



Questions ? Concerns ? Suggestions for Improvement ?

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