



Lawrence Livermore National Laboratory
Supply Chain Management Department

16 July 2008

Attention: Interested Offerors

Subject: **Sequoia Request for Proposal (RFP) Number B563020**
Proposal Due 21 August 2008

Lawrence Livermore National Security, LLC (hereinafter called "LLNS") requests proposals for the Sequoia Procurement in accordance with this RFP and the enclosed sample subcontracts. Proposals shall be valid for at least 120 days after the due date.

Acceptance of late proposals will be at the sole discretion of LLNS. LLNS reserves the right to reject any or all proposals, to waive any minor irregularities in any proposal, or to cancel this RFP at any time prior to award without cost to LLNS. This RFP does not include provisions for the direct reimbursement of proposal preparation costs.

The LLNS Contract Administrator is Gary Ward and may be reached by telephone at (925) 423-5952 or by email at ward31@llnl.gov. Brandt Esser is the backup LLNS Contract Administrator and may be reached by telephone at (925) 423-1518 or by email at esser3@llnl.gov.

The Lawrence Livermore National Laboratory (hereinafter called "LLNL") is managed by LLNS and operates under LLNS procurement policies and procedures consistent with the Prime Contract between LLNS and the United States Government, represented by the Department of Energy National Nuclear Security Administration (hereinafter called "DOE/NNSA").

Interested Offerors must send a contact name, phone number and email address to the LLNS Contract Administrator, via email (ward31@llnl.gov), no later than 24 July 2008, so that LLNS can notify Offerors of any changes to the RFP. LLNS will not be responsible for notifying Offerors who do not register according to these instructions. Offerors are ultimately responsible for monitoring the website at <https://asc.llnl.gov/sequoia/rfp/> for all amendments to the RFP, questions and answers germane to the RFP, and updated information.

FUNDING AVAILABILITY

Funding to perform all of the work described in the sample subcontracts is not available. LLNS anticipates funding to become available in a manner which will allow the selected Offeror(s) to perform continuously until completion.

The working budget range for the Sequoia Research and Development/Development & Engineering (R&D) Subcontract is up to \$12.0M. The working budget range for the Sequoia Build Subcontract

(i.e., 0.5 petaFLOP/s Dawn, 20.0 petaFLOP/s Sequoia, and five years of maintenance) is up to \$214.5M.

The working budget for the Sequoia R&D Subcontract targets a period of GFY09 through GFY11. The working budget for the Sequoia Build Subcontract targets periods of GFY08 through GFY09 for Dawn, and GFY10 through GFY13 for Sequoia, with related maintenance payments in GFY10 through GFY15.

It is important to note that these are budgetary estimates only. Final numbers will be based upon the proposals received, the results of negotiations that will determine the configuration of the systems and their delivery schedules, and annual appropriated funding from Congress. Exercise of any proposed options will depend on prices proposed by Offerors for the options, the value to LLNS of exercising the options, and annual appropriated funding from Congress.

NAICS CODE AND SMALL BUSINESS SIZE STANDARD

The North American Industry Classification System (NAICS) Code for this acquisition is **334111, Electronic Computer Manufacturing**. The corresponding small business size standard for this acquisition is 1,000 or fewer employees.

The Offeror shall base its Small Business Program Representations in the attached Representations and Certifications form on this small business size standard. Refer to Subpart 19.1 - Size Standards, of the Federal Acquisition Regulation (FAR) for information on calculating number of employees.

PROPOSAL PREPARATION

Refer to Attachment 3, Proposal Evaluation and Proposal Preparation Instructions for related information. This attachment contains detailed and specific instructions on what must be included in the proposals. It is extremely important to note that Attachment 2, the Draft Statement of Work (SOW), and Attachment 3 must be used together. Attachment 2 contains the technical requirements for the Dawn and Sequoia supercomputers and Attachment 3 describes how an Offeror must respond to those technical requirements. In addition, Attachment 3 also includes how an Offeror must respond in its proposal to business and pricing requirements of this RFP.

Part 2 of Attachment 3 describes the overall format of the proposal. Part 3 describes how Offerors must respond to the Sequoia Build technical requirements of Attachment 2, the Draft SOW. Part 4 addresses past performance information, open source experience, and company financial information. Part 5 describes how Offerors may propose alternate technical proposals. Part 6 describes how Offerors must respond in their Sequoia R&D technical proposals. Part 7 describes how Offerors must respond with a Sequoia R&D and Build price proposal. Part 8 describes how Offerors may propose alternate price proposals. Part 9 addresses miscellaneous information Offerors should submit in their proposals. Part 10 provides further details about company financial information. Part 11 addresses benchmark related information.

The terms Mandatory Requirement, Mandatory Option Requirement, Technical Option Requirement, and Target Requirement are used throughout Attachments 2 and 3. Section 1.2 of Attachment 3 provides definitions of these terms, and describes how Offeror's response to each of these

requirements will be assessed as part of the best value source selection process. The Draft SOW contains two Mandatory Requirements, located in Sections 2.1 and 4.1, and one Mandatory Option Requirement, located in Section 2.12.3. Technical Option Requirements and Target Requirements are identified throughout the Draft SOW.

EVALUATION AND SELECTION

LLNL, Sandia National Laboratory, and Los Alamos National Laboratory (hereinafter called "Tri-Labs") personnel will participate in the proposal evaluation process.

Refer to Attachment 3, Proposal Evaluation and Proposal Preparation Instructions for related information. Part 1 describes in detail how the Tri-Labs will evaluate proposals received in response to this RFP. Section 1.1 addresses evaluation factors and the basis for selection. Section 1.2 addresses requirement category definitions and describes how the Tri-Labs will assess an Offeror's response to each of these requirements as part of the best value source selection process. Section 1.3 addresses evaluation of the technical proposals and performance features offered in each proposal(s). Section 1.4 describes how the Tri-Labs will evaluate an Offeror's proposed delivery schedule. Section 1.5 relates to how the Tri-Labs will assess the feasibility of the systems proposed by an Offeror. Section 1.6 describes how the Tri-Labs will assess Offeror business proposals. Section 1.7 describes how the Tri-labs will evaluate price. Section 1.8 addresses how the Tri-labs will evaluate alternate proposals. Finally, Section 1.9 addresses options.

OFFEROR QUESTIONS

In order to maximize the likelihood of Offerors completely understanding the scope and intent of this RFP, LLNS will allow questions and one-on-one meetings until 14 August 2008. LLNS will respond to questions submitted in writing to the LLNS Contract Administrator on or before 14 August 2008. Questions submitted after this date may not be answered due to time constraints. Questions may only be submitted by email. In addition to this formal documented Q&A procedure, the LLNS Contract Administrator and Technical Representative(s) will be available from 10:00AM to 2:00PM, PST, Monday, Wednesday and Friday of each week until 14 August 2008, to meet with interested Offerors face-to-face at LLNL and/or by teleconference. The LLNS representatives will only talk to one Offeror at a time. These meetings will allow an Offeror the opportunity to discuss approaches or solutions it may be considering with the assurance that any sensitive or proprietary information disclosed to the LLNS representatives will be not be shared with other Offerors. Contact the LLNS Contract Administrator to schedule a meeting. Answers to questions that are germane to the interpretation of the LLNS' requirements, whether submitted in writing or posed during a meeting, will be posted to the ASC Sequoia procurement website.

SUBMITTING PROPOSALS

Submission of a proposal(s) indicates the Offeror's willingness to accept the terms and conditions of the sample subcontracts and their attachments unless specific exceptions are taken. These terms and conditions have been approved by the DOE/NNSA. Changing them will be time consuming. Failure to accept the terms and conditions may result in significant, unacceptable delays in award of the Subcontracts, which could cause LLNS to reject Offeror's proposal.

Please submit one electronic copy of your proposal(s) on CD-ROM. Hardcopy proposals are not required. The proposal should be in Microsoft Office (i.e., Word, Excel, PowerPoint, Project and Visio), PDF format, or Rich Text Format. Submission of a proposal by electronic media will be considered by LLNS to be an Offeror's certification that the media are virus free.

It is important to note that Offerors should NOT plan to submit their proposal(s) via email. Firewall and other cybersecurity measures at LLNL may interfere with proposal submission via email. Offerors should plan to submit their proposals on CD-ROM.

Proposals are due to the LLNS Contract Administrator on 21 August 2008. Facsimile proposals are not acceptable.

Offerors shall deliver the proposal(s) to one of the following addresses.

Address for Commercial Courier

(Not For Hand Delivery)

Lawrence Livermore National Laboratory
Attention: Gary Ward
Mail Code L-557
RFP B563020
7000 East Avenue
Livermore, CA 94550

Address for Mailing

Lawrence Livermore National Laboratory
Attention: Gary Ward
Mail Code L-557
RFP B563020
P.O. Box 5012
Livermore, CA 94551

In addition, Offerors may hand carry and deliver its proposal to the LLNS Contract Administrator, who will be available between 1:00-2:00 PM PST on 21 August 2008, to receive proposals at the Discovery Center at the Lawrence Livermore National Laboratory. The Discovery Center is designated as Building 651 and is located on the east side of the LLNL off of Greenville Road. No special access credentials are required for admission to the Discovery Center.

PROPRIETARY INFORMATION

LLNS will treat any commercial or financial information in the proposal as proprietary. LLNS expects to receive proprietary technical information. If the proposal includes proprietary technical information, it must be marked "Proprietary" or its equivalent. LLNS will use its best efforts to (1) maintain such proprietary information in confidence, giving it the same degree of care, but no less than a reasonable degree of care, as LLNS exercises with its own proprietary information to prevent its unauthorized disclosure; and (2) only disclose such proprietary information to its employees, agents, consultants, subcontractors, Tri-Lab personnel, or Government personnel who have a need to know related to this RFP and are bound by an obligation of confidentiality.

FACILITY CLEARANCE AND FOREIGN OWNERSHIP, CONTROL OR INFLUENCE (FOCI) DETERMINATION

The Offeror must have or be able to obtain a positive FOCI determination and a DOE/NNSA or Department of Defense (DOD) Facility Clearance. The Offeror's proposal shall indicate whether it currently has a Facility Clearance or, considering its FOCI situation, whether it is willing and considers itself able to obtain them. If the Offeror does not have or is unable to obtain them, the

Offeror, at LLNS' discretion, will be ineligible for an award or, if selected for an award, be required to perform on a restricted basis until a positive FOCI determination is made and a Facility Clearance is granted. If permitted to perform on a restricted basis, the Offeror would not be permitted access to classified matter or special nuclear material or unescorted access to certain security areas of the LLNL.

To apply for and obtain a FOCI determination and a Facility Clearance, the Offeror must complete and submit certain electronic FOCI forms and related information, available on the DOE FOCI Electronic Submission Site Home at: <https://foci.td.anl.gov/>, which contains additional information. The submission will consist of a complete disclosure of information which DOE/NNSA considers relevant to determining whether the Offeror is actually or potentially subject to any FOCI.

EEO PRE-AWARD COMPLIANCE CERTIFICATION

An award in the amount of \$10 million or more will not be made under this solicitation unless the successful Offeror and each of its known first-tier subcontractors to whom it intends to award a Subcontract of \$10 million or more are found, on the basis of a compliance review conducted by the responsible government agency, to be able to comply with the provisions of the Equal Opportunity clause in the General Provisions of the sample subcontracts.

If the Offeror's proposal is valued at \$10 million or more, and the Offeror is not otherwise exempt from this requirement, and is not listed in the Office of Federal Contract Compliance Programs (OFCCP) National Pre-Award Registry, available on the Internet at <http://www.dol-esa.gov/preaward/>, then the Offeror shall complete and submit with its proposal the attached EEO Pre-Award Compliance Certification, along with the information stipulated in the form.

WORKPLACE SUBSTANCE ABUSE PROGRAM PLAN

The Sequoia Build subcontract will include DEAR clause 970.5223-4, *Workplace Substance Abuse Programs at DOE Sites*, requiring the Subcontractor to develop, implement, and maintain a workplace substance abuse program consistent with Part 707 of Title 10 of the Code of Federal Regulations (10 CFR 707). Refer to Section 9.7 of Attachment 3, Proposal Evaluation and Proposal Preparation Instructions for additional information.

INTELLECTUAL PROPERTY

It is anticipated that intellectual property rights to new intellectual property developed under the Sequoia R&D subcontract(s) may be retained by the selected offeror(s) performing the development, rather than by the Government, provided that the appropriate cost-sharing conditions exist and documentation is filed supporting approval of a waiver by DOE/NNSA. See the following notice.

NOTICE TO OFFERORS

DEAR 952.227-84 - RIGHT TO REQUEST PATENT WAIVER (FEB 1998).
Offerors have the right to request a waiver of all or any part of the rights of the United States in inventions conceived or first actually reduced to practice in performance of the [sub]contract that may be awarded as a result of this solicitation, in advance of or within 30 days after the effective date of [sub]contracting. Even where such advance

waiver is not requested or the request is denied, the [sub]contractor will have a continuing right under the [sub]contract to request a waiver of the rights of the United States in identified inventions, i.e., individual inventions conceived or first actually reduced to practice in performance of the [sub]contract. Domestic small businesses and domestic nonprofit organizations normally will receive the patent rights clause at 952.227-11 which permits the [sub]contractor to retain title to such inventions, except under contracts for management or operation of a Government-owned research and development facility or under [sub]contracts involving exceptional circumstances or intelligence activities. Therefore, small businesses and nonprofit organizations normally need not request a waiver. See the patent rights clause in the draft [sub]contract in this solicitation. See also DOE's patent waiver regulations at 10 CFR part 784.

ATTACHMENTS

The following attachments are part of this RFP. Refer to Attachment 3 for instructions on what must be included in the proposal submission.

- Attachment 1.1: *Sample **R&D** Subcontract (B571534)*
- Attachment 1.2: *Sample **Build** Subcontract (B563020)*
- Attachment 2: *Draft Statement of Work*

This attachment includes all the system requirements, timelines and management plan. In addition, this attachment includes detailed background information regarding this DOE/NNSA program and mission drivers, the code development environment, and the current ASC simulation environments at LLNL. This attachment also includes information about the computer building and facility that will house the Dawn and Sequoia systems.
- Attachment 3: *Proposal Evaluation and Proposal Preparation Instructions*

This attachment describes the Tri-Labs' proposal evaluation criteria, basis for award, LLNS' intention to make multiple awards, proposal format, and related proposal preparation information.
- Attachment 4: *Sequoia Price Schedule*

This attachment, once completed by Offerors, will provide LLNS with Dawn, Sequoia, and related pricing information.
- Attachment 5: *General Provisions for Fixed Price Supplies and Services (600C)*

This attachment applies to the R&D subcontract.
- Attachment 6: *General Provisions for Commercial Supplies and Services (600B)*

This attachment applies to the Build subcontract.
- Attachment 7: *Site Service Requirements*

This attachment applies to both subcontracts.
- Attachment 8: *Security and Site Access Provisions*

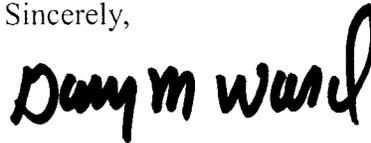
This attachment applies to both subcontracts.
- Attachment 9: *Model Small Business Subcontracting Plan*

An individual plan will apply to the R&D subcontract. An Offeror's existing corporate wide small business subcontracting plan may be acceptable for the Build subcontract.

- Attachment 10: *Representations and Certifications*
- Attachment 11: *EEO Pre-Award Compliance Certification*
- Attachment 12: *Certification of Toxic Chemical Release Reporting*
This attachment applies to the R&D subcontract.
- Attachment 13: *Cost Accounting Standards Notices and Certification*
This attachment may apply to the R&D subcontract.
- Attachment 14: *FAR Table 15-2, Instructions for Submitting Cost/Price Proposals*
This attachment may apply to the R&D subcontract.
- Attachment 15: *COPD Certificate*
This attachment may apply to the R&D subcontract.

This solicitation is available at the following location: <https://asc.llnl.gov/sequoia/rfp/>

Sincerely,

A handwritten signature in black ink that reads "Gary M. Ward". The signature is written in a cursive, slightly slanted style.

Gary M. Ward
LLNS Contract Administrator

Attachments: As Noted