



LIGO LABORATORY
California Institute of Technology
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Date: March 31, 2010
DCC: LIGO-L1000145-v2

Clean Rooms West Inc
1392 Industrial Drive
Tustin, CA 92780

Attention: Kelly Barton, kbarton@cleanroomswest.com

Subject: Request for Information (RFI) – aLIGO Laser Area Enclosure

The California Institute of Technology (Caltech) solicits your expression of interest, together with a brief description of your supporting qualifications, to design, fabricate and install Laser Area Enclosures incorporating Class 1000 cleanroom spaces with the approximate dimensions and layout shown in document [LIGO-D1000735-v1](#).

We anticipate constructing three such Laser Area Enclosures, two at the LIGO Hanford Observatory near Richland, WA and one at the LIGO Livingston Observatory near Livingston, LA. All three enclosures will be constructed or assembled inside existing high-bay Class 50,000 cleanroom areas serviced by 5 ton bridge cranes with hook heights of approximately 29 ft.

The enclosures must be capable of operating in two modes, a *Service Mode* in which the rooms can be occupied and HEPA fan units are operating and a *Science Mode* in which the rooms will not be occupied and all local HEPA fans units will be shut off. In Science Mode, make-up air might be ducted to the Laser Room from a remotely located HEPA fan unit to provide overpressure and temperature control. We also require approximately 20 dB of acoustic isolation for frequencies above 100 Hz inside the Laser Room when in Science Mode.

It is desirable that the selected supplier have in-depth cleanroom design and engineering experience. Your response to this RFI should briefly identify relevant experience and specific references (with telephone numbers). Please do not submit proprietary information, brochures, lengthy capability statements, or other information not related to this particular RFI. Your organization will not be notified as to the disposition of any material submitted in response to this RFI.

The tentative schedule contains the following Milestones:

- Expression of Interest to receive a Request for Proposal (RFP) related to this RFI (THIS DOCUMENT) shall be received by 4/14/10.
- Caltech will issue a detailed RFP to interested qualified respondents by 4/21/10.

- Proposals (limited to 25 pages, not including detailed cost information) will be due 5/19/10.
- Contract will be awarded no later than 7/7/10.

The overall project hyperlink is available at [LIGO](#).

This RFI does not constitute or imply a commitment that Caltech will take procurement action on this particular matter. Neither Caltech nor the Government will be responsible for costs incurred in responding to this RFI. Please submit your expression of interest and accompanying information by email to my attention no later than 4/14/10.

Technical comments and questions should be directed to either

Rick Savage
Technical Manager
LIGO Hanford Observatory
509 372-8130
richard.savage@ligo.org

or the undersigned.

Sincerely,

For Rudy Arvizu
LIGO Subcontract Officer
(626) 395-4834 Phone
(626) 304-9834 Fax
rarvizu@ligo.caltech.edu

cc: D. Anderson
E. Jasnow
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A. Wilkins