

Statement of Work:**Summary:**

The Laser Interferometer Gravitational-Wave Observatory (LIGO) is sponsored by the U.S. National Science Foundation (NSF) and is managed jointly by the California Institute of Technology (Caltech) and the Massachusetts Institute of Technology (MIT). The mission of the LIGO Project is to research, develop and implement techniques for the detection of astrophysical gravitational waves. The Observatory network is currently taking data at its design sensitivity. Facilities include research and development sites on the Caltech and MIT campuses and laser interferometer observatories in Hanford, Washington and Livingston, Louisiana.

The Louisiana Observatory is convenient to the New Orleans and Baton Rouge metropolitan areas. LIGO is located on a large plot of land (approximately 70 acres), most of which is foliage that must be maintained to some degree. Some areas require regularly scheduled full lawn manicure level maintenance, while some areas will only need occasional "bush hogging". Included in this contract is also weed abatement. There are some areas of the LIGO campus that are inaccessible to or impractical for lawn equipment, and the use of weed/grass killer is preferred. While an approximate number of regular cuttings, rough cuttings and weed abatement sprayings are listed below, bidders will also specify the amount for each of these services, in the event of additional services are needed in the time period covered by the contract. Since LIGO will be in regular operation mode for the next several years, all work (unless expressly authorized by the LIGO operations manager) will be performed between the hours of 7:00AM-12:00PM every Tuesday. The period of the contract starts upon award of contract through September 30th of 2015 with an option for a 1 year renewal at the end of that period. Due to the nature of the contract, the option to renew the contract on a yearly basis will be included. Additionally, contractor may be required to purchase or rent equipment or material for work to be completed, please include mark-up rates as a separate rate quote. Bidders should note that the frequency of services are given in # times/yr to allow for more frequent cuttings in the summer months, and less in the winter.

Scope of work:

Cutting and bush hogging:

- Finish cut, edge, and trim areas surrounding the OSB, SEC, VPW and Staging buildings. Removal of debris from walkways and roads is to also be performed. Weed flower beds as needed. Approximately 10 acres. Frequency – 26 times/yr (with higher concentration in summer).
- Bush hog and trim exposed side of south tunnel arm. Approximately 8 acres. Frequency – 4 times/yr
- Bush hog and trim back side of south tunnel arm. Approximately 7 acres. Frequency – 4 times/yr
- Bush hog and trim exposed side of west tunnel arm. Approximately 6 acres. Frequency – 4 times/yr
- Bush hog and trim back side of south tunnel arm. Approximately 4 acres. Frequency – 4 times/yr
- Finish cut, edge, and trim areas surrounding both end stations and the OSB overpass. Removal of debris from walkways and roads is to also be performed. Approximately 3 acres. Frequency – 11 times/yr
- Bush hog and trim both sides of 1.25 mile access road leading to LIGO from Hwy 63. Approximately 6 acres. Frequency 11 times/year

Weed abatement:

- LIGO Lane access road. 1.25 miles, 5 feet on either side of the road. Approximately 75,00 sqft, 5 times/yr.

- Roads, parking lots and areas around LIGO main campus buildings. Approximately 25000 sqft, 5 times/yr.
- Areas adjacent to X arm tunnel (both sides), x arm road edge, mid station building, end station building, chiller yard and parking lot. Approximately 210,000 sqft, 5 times/yr.
- Areas adjacent to Y arm tunnel (both sides), Y arm road edge, mid station building, end station building, chiller yard and parking lot. Approximately 210,000 sqft, 5 times/yr.
- Perimeter fence from hwy 63 to LIGO front gate. Approximately 80,000 sqft, 5 times/yr
- Perimeter fence that encompasses the entirety of the LIGO campus. Approximately 300,000 sqft, 5 times/yr.

Requirements for Contractor personnel:

- Must be able to adhere to LLO policies and procedures.
- Must complete LLO safety orientation before work can commence
- Work must be performed during designated maintenance period (currently every Tuesday, 7:00AM-12:00PM) Work performed at any other times must be arranged ahead of time and have expressed permission from the LLO operations manager.