

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

REQUEST FOR QUOTE

Industrial Electrical Services Support

Contract #

The South Dakota Science and Technology Authority (SDSTA) is seeking quotes for Industrial Electrical Services Support at the Sanford Underground Research Facility (SURF) located in Lead, South Dakota.

Background

The South Dakota Science and Technology Authority (SDSTA) is a quasi-governmental agency established by the State of South Dakota to operate and manage the Sanford Underground Research Facility (SURF) in Lead, South Dakota. This facility has been developed to support a variety of scientific experiments, including physics, biology, geology, and others. SURF advances our understanding of the universe by providing laboratory space deep underground, where sensitive physics experiments can be shielded from cosmic radiation. Researchers at Sanford Lab explore some of the most challenging questions facing 21st century physics, such as the origin of matter, the nature of dark matter and the properties of neutrinos.

Scope

The South Dakota Science and Technology Authority (SDSTA) is seeking quotes to provide all of the supervision, plant, labor, materials, necessary tools, expendable equipment, and all utility and transportation services to provide Industrial Electrical Services Support to be conducted underground and above ground. This will be an on-call, as-needed Time & Materials contract. The expected period of performance for this service contract is two years, beginning tentatively on November 13, 2020 and ending tentatively on November 12, 2022. The scope includes, but not limited to the following:

Functional Responsibilities

Radio Communications

- Installs radio communication networks.
- Inspects communications equipment to ensure all communication networks are running properly.
- Conducts routine maintenance on equipment and communication networks.
- Communicates outages and repairs problems.

Motor Controls

- Installs and maintains large AC/DC motors and control systems.
- Troubleshoots wiring and motor controls.

Programmable Logic Controllers (PLCs)

- Installs all PLCs for multiple inputs and output arrangements.
- Researches and recommends or approves all PLCs in building plans.
- Maintains and troubleshoots PLCs including resistance to extended temperature ranges, electrical noise, vibration, and impact.

Fiber Optic and Copper Cabling

- Installs, splices, and terminates single and multi-mode fiber optics.
- Installs and terminates CAT 5, 5E, and 6 copper cabling.
- Works with networking staff to troubleshoot fiber and copper terminations and connections to networking equipment.

High Voltage Electrical System

- Designs and installs high voltage conduit, wiring, and electrical panels.
- Monitors the electrical usage and system capacity.
- Troubleshoots high voltage system including circuits, load balance, and insulation testing.

Surface and Underground Electrical Systems

- Installs of wiring, conduit, and electrical panels.
- Repairs or replaces outlets, switches, and ballasts.

Rates and Fees

- Provide labor rates for all personnel. (include nightshift rates, overtime rates, and holiday rates, if applicable) Electricians must be South Dakota Licensed.

The evaluation criteria for contractor selection will be based on the following:

1. Price
2. Qualifications/references (must provide three references)
3. Safety record

Submittal Requirements:

1. Rates for all personnel
2. Provide three references
3. Completed Contractor EHS Questionnaire

All questions must be received in writing no later than 2:00 p.m. MST on October 23, 2020. Questions received will be answered and available in a “Questions and Answers” format document and posted to this RFQ by 5:00 p.m. MST on October 26, 2020. All quotes must be submitted no later than the closing date of October 30, 2020 by 2:00 p.m. MST. Please submit one electronic copy (.pdf format is preferred) of your quote to jdarlow@sanfordlab.org. Late submissions will not be accepted.