



Job Description: Project Engineer VEGA System

Job Title:	Project Engineer	Prepared By:	B. Hornberger, J. Simmons
Department:	Operations	Approved By:	Michael Feser
Reports To:	VP of Operations	Date:	4/1/2021
FLSA Status:	Exempt	Location:	ELI-NP, Magurele, Romania

To apply, please send resume and cover letter to info@lynceantech.com

Basic Functions

The Project Engineer (PE) represents Lyncean Technologies Inc. (LTI) at the ELI-NP site as the local representative for the installation, commissioning, and operational support of the VEGA gamma-ray source. The VEGA system is a high-end scientific instrument built by LTI, to be part of the Extreme Light Infrastructure - Nuclear Physics (ELI-NP) and operated by the "Horia Hulubei" National Institute for Research and Development in Physics and Nuclear Engineering (IFIN-HH) in Magurele near Bucharest. The PE works with LTI's Operations and Engineering groups remotely, and on-site during visits of personnel from the United States. He/she is expected to participate in training at the LTI facility in Fremont, California for several multi-week sessions (Covid-19 permitting). The PE will be trained in the operation and maintenance of the VEGA system and will remain the on-site support person for Lyncean for operation of the machine after completion of the installation. The PE is also expected to support additional LTI systems in Europe, for example in Munich, Germany.

Responsibilities

1. Represent LTI at the ELI-NP work site on a daily basis with work schedule to increase overlap with US time zone (i.e., start and end work later in the day).
2. Be LTI's local interface to ELI-NP / IFIN-HH.
3. Develop a strong working knowledge of the VEGA system and its technologies to support installation, accomplish preventive maintenance and issue recognition, and act as first line fault isolation and corrective maintenance. This knowledge may then be extended to support other sites in the future.
4. Perform technical tasks as instructed, e.g., take measurements, perform tests and minor installations, maintain equipment etc. under remote or in-person instruction.
5. Participate in on-site work by LTI as instructed.
6. Keep the work site organized and tidy, ensure local code and site-specific regulations are met.
7. Be one of LTI's persons-in-charge for OHS, fire safety and first aid, and train LTI personnel from US working on site in these areas. Work with outside consultants / experts on implementing programs to meet Romanian and site-specific regulations.
8. Periodic checks of compliance with code and regulations
9. If possible, act as an interpreter (Romanian-English-Romanian) for LTI as needed and handle documentation required in Romanian language. However, Romanian language skills are not strictly required.
10. Manage deliveries to and from the work site (paperwork, local presence, loading/unloading, packing/unpacking, storing, securing goods, etc.)
11. Interface with and supervise LTI's local suppliers
12. Interact with local authorities on behalf of LTI
13. Perform other tasks as assigned

Skills and requirements

- Hands-on worker that can work on electronic, high powered electrical, mechanical, vacuum and optical equipment, as well facility infrastructure (electrical, HVAC, plumbing), as necessary.
- Familiar with technical/scientific instrumentation and able to perform tasks on complex equipment based on instructions and/or with remote support.
- Motivated, organized, and self-directed; able to work with minimal supervision and local support from the company.
- Good communication skills. Able to communicate fluently in English, spoken and in writing. Romanian language skills are strongly preferred but not strictly required.
- Able to develop and maintain good working relationships with both customers and suppliers; able to manage and de-escalate conflicts.
- Must be available for regular (up to daily) communication during California working hours (evening hours in Romania).
- Standard computer skills incl. MS Office. Familiarity with engineering systems (CAD, Matlab, LabView, etc.) and/or the Linux operating system is a plus.
- Has, or can obtain, basic understanding of local and site-specific code and regulations in Occupational Health and Safety (OHS), fire safety and related fields; able to implement programs to meet such regulations.
- Trained, or able to be trained, in first aid and other safety procedures.
- Has, or able to obtain authorization to operate lifting equipment (ISCIR).
- Not necessary to be licensed electrician etc.

Education/Training

- Bachelor's or master's degree in technical field, preferably mechanical or electrical engineering, or physics.
- Formal training in facilities (electrical, water, air) and equipment operation/maintenance is preferred.

Experience

- Preferred to have at least 5 years of experience, will consider candidates with less.
- Experience in scientific or other high-end instrumentation is highly preferred.

Travel Requirements

- Must be willing and able to travel internationally (typically USA and Europe) in a typical year on at least one to two long trips of typically 4 to 6 weeks and more frequent trips of one to two weeks duration.
- Must be willing to travel during Covid-19 pandemic (if regulations permit)