

JEFFERSON SCIENCE ASSOCIATES, LLC.
THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY
628 HOFSTADTER ROAD, SUITE 2, NEWPORT NEWS, VA 23606
(757) 269-7598

JOB OPPORTUNITIES BULLETIN
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APPLICATION PROCEDURE:

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ADMINISTRATORS

10448 – HR Consultant

SALARY RANGE: \$54,300 - \$81,500 (SA II)

PART-TIME WITH BENEFITS

EXPERIENCE/EDUCATION REQUIREMENTS:

Candidate must have a B.S. Degree in an IT-related field and at least five (5) years of related work experience or an equivalent combination of education and experience. The candidate must possess a strong understanding of HR processes; strong knowledge of database design and tools; experience creating complex queries and pass-through queries; working knowledge of VBA; familiarity with SQL in Oracle; thorough knowledge of MS Excel, Word, Access, and PowerPoint; experience with HRIS such as DELTEK, CostPoint or related system is a plus, and must be highly organized with strong attention to detail.

ASSOCIATE COORDINATORS

10429 – Mechanical Designer

SALARY RANGE: \$53,200 - \$105,800 (A/C I/II)

EXPERIENCE/EDUCATION REQUIREMENTS:

A.A. Degree plus ten to fifteen (10-15) years experience or equivalent combination of education and experience. High level mechanical design capabilities; expert in the use of CAD software; able to work as a team member; able to plan work complex assignments and maintain schedules; understand directions; ask questions, and report on problems and status, and excellent communication skills.

10440 – 12 GeV Accelerator Work Coordinator

SALARY RANGE: \$75,500 - \$119,100 (ESM)

EXPERIENCE/EDUCATION REQUIREMENTS:

A.S. Degree plus twenty (20) years relevant experience or equivalent combination of education and experience. Must have an understanding of Accelerator and Experimental hall systems, including conventional facilities; basic understanding of the changes that will take place to the existing accelerator, including accelerator installation activities within the Halls A, B, C, and D Complex to complete the 12GeV Upgrade Project; demonstrated track record of successfully leading or managing a multiple person group or project; demonstrated management and leadership skills; demonstrated ability to communicate well with a wide variety of individuals and groups at all levels; demonstrated ability to lead multiple work crews in a safe and productive manner; ability to identify problems, multiple options, and evaluate different perspectives; demonstrated experience working independently and as a member of a team; proficient with software programs such as project management software, word processing, and spreadsheets; familiar with budget and scheduling tools, and demonstrates professional abilities. Formal management training is preferred.

ENGINEERS

10295 – Sr. Engineer for Magnets

SALARY RANGE: \$99,100 - \$156,500 (Senior Staff Engineer)
\$120,100 - \$189,700 (Principal Staff Engineer)

EXPERIENCE/EDUCATION REQUIREMENTS:

M.S. or Ph.D. Degree in Engineering or Physics with at least ten (10) years documented experience leading significant scale super conducting magnet projects. Experience with Engineering Analysis tools such as FEA and TOSCA 3D Magnetic Analysis is required. Proficiency in magnet design codes, POISSON and/or OPERA, is strongly desired. Experience in some of the following related areas is required: vacuum systems, load-bearing support structures, liquid helium cryogenics, pressure vessel and pressure piping, load-bearing positioning and alignment mechanisms. Prior work experience as an engineer in a leadership capacity responsible for complete superconducting magnet systems is required.

10325 – Pressure Systems Mechanical Engineer

SALARY RANGE: \$81,700 - \$129,300 (SE III)

EXPERIENCE/EDUCATION REQUIREMENTS:

B.S. or M.S. Degree in Mechanical Engineering or a closely related field with a minimum of twelve (12) years of design experience in pressure systems where consensus codes were applied throughout a project. A demonstrated track record of designing complex pressure vessels or piping system according to ASME codes is required. This may include development of welding/brazing procedure specifications and procedure qualification records according to ASME. Familiarity with equivalent European codes is a plus. The candidate must have a demonstrated ability to do independent research and proven analytical skills. Good communication skills and the ability to interact constructively with a wide variety of staff are required. Some familiarity with cryogenic plant design and operations or experience in particle accelerator system design would be helpful.

10343 – Fire Protection Engineer (Rev)

SALARY RANGE: \$51,800 - \$82,000 (SE I)
 \$65,300 - \$103,100 (SE II)

EXPERIENCE/EDUCATION REQUIREMENTS:

Engineer I

B.S. Degree in Fire Protection Engineering, Fire Protection and Safety Engineering Technology or related discipline. Knowledge of National Fire Protection Codes and Standards and the International Fire Code; computer skills with Microsoft Word, Excel, Access, Power Point and AutoCAD. Previous use of fire sprinkler design software, fire modeling programs, early warning smoke detection design programs and maintenance management programs are desirable.

Engineer II

B.S. Degree in Fire Protection Engineering, Fire Protection and Safety Engineering and higher education or professional certification. Extensive knowledge of National Fire Protection Codes and Standards; The International Fire Code, highly protected risk or the best-protected class of industrial risk insurance industry standards, and FM Global Loss Prevention Data Sheets. Ten (10) years experience in fire protection design or related consulting services. Considerable computer skills with Microsoft Office, fire sprinkler design software, fire modeling programs, early warning smoke detection design programs, maintenance management programs and AutoCAD. Previous experience with Department of Energy Standard 1066 *Fire Protection Design Criteria*, and Order 420.1B *Facility Safety* is desirable.

10384 – FEL Operations Coordinator

SALARY RANGE: \$99,100 - \$156,500 (SSE)

EXPERIENCE/EDUCATION REQUIREMENTS:

B.S. Degree in Electrical Engineering or equivalent. Must have a minimum of twelve (12) years experience operating electron beam devices. Experience in superconducting accelerators is a strong plus. Candidate will oversee daily operations and direct beam operators including overseeing their training. Candidate is also expected to participate in on-going Navy Innovative Naval Prototype efforts to design and build a high power FEL with industry. This will involve design trades and engineering studies. Candidate must have good skills in physics designs of electron beam diagnostics, RF power, cryogenics, ultrahigh vacuum techniques, and control systems. Good communication skills are essential to present study results both orally and written.

10385 – Injector Group Electrical Engineer

SALARY RANGE: \$53,200 - \$105,800 (SE I/II)

EXPERIENCE/EDUCATION REQUIREMENTS:

BS Degree plus two (2) years experience in Mechanical, Electrical or Materials Science Engineering, or a closely related Applied Physics discipline. MS Degree preferred. A demonstrated experimental background in one or more of the technologies specific to polarized electron sources or electron polarimetry, e.g., ultrahigh or extreme high vacuum technology, high voltage, electron gun design, low energy electron beamline design, electron beam diagnostic development, surface science, specialized lasers, sophisticated data acquisition systems like those required for parity violation experiments, etc., is also required. The demonstrated ability to translate laboratory developments into functional "production" systems is a strong plus. Familiarity with Computer Aided Design (CAD) is also a strong plus.

10389 – Electronics Engineer

SALARY RANGE: \$65,300 - \$103,100 (SE II)

EXPERIENCE/EDUCATION REQUIREMENTS:

B.S. Degree in Electrical Engineering or related field; M.S. Degree preferred. Candidate should have at least four (4) years experience in electronic circuit and system design. Experience with PC- based computer aided design tools, spreadsheets, and word processing software is required. Candidate must have strong written and oral communication skills. A solid foundation in the basic sciences of Math, Chemistry, and Physics is a plus.

10399 – SRF Lead Mechanical Engineer

SALARY RANGE: \$81,700- \$156,500 (SEIII/SSE)

EXPERIENCE/EDUCATION REQUIREMENTS:

Requires a BS or MS Degree in Engineering with a minimum of ten (10) years of design experience related to particle accelerators or the equivalent combination of education, experience, and specific training. Experience in structural mechanics, heat transfer, cryogenics, and vacuum systems is required. Supervisory and/or project management experience is also required. Familiarity with multiple aspects of particle accelerator design and theory, including ultra high vacuum, superconducting radio frequency cavities, and cryostat design is strongly desired. The incumbent must have a demonstrated ability to do independent research and proven analytical skills. Good communications skills and the ability to interact constructively with physicists, engineers, designers, technicians, and procurement personnel are required.

10422 – Mechanical Engineer – Accelerators

SALARY RANGE: \$67,000 - \$132,600 (SE II/III)

EXPERIENCE/EDUCATION REQUIREMENTS:

A BS or MS Degree in Engineering or Physics plus ten (10) years experience is required. An aptitude for several areas of Mechanical Engineering with an emphasis on structures, material science, fluid flow, and heat transfer is required. Knowledge of cryogenics, vacuum, magnet design, vibration, water systems, and/or stress analysis is desired. Additional experience in a precision environment such as accelerators or a complex industry such as aircraft is a plus. The incumbent should be capable of generating practical design solutions by utilizing their knowledge of machine shop techniques and systems hardware. The ability to interact with other engineering and design personnel to resolve problems in consultation with customers is also required. Finally, a proven track record of initiative and resourcefulness to accomplish these varied tasks is essential.

10428 – Design Engineer

SALARY RANGE: \$67,000 - \$105,800 (SE II)

EXPERIENCE/EDUCATION REQUIREMENTS:

B.S. Degree in Mechanical Engineering or an equivalent combination of education and experience. Four (4) years design experience in a precision environment such as accelerators or a complex industry such as aircraft is required. A demonstrated competence in several areas of Mechanical Engineering with emphasis on structures, Material Science and heat transfer with expertise in cryogenics highly desired. A demonstrated ability to complete tasks by creating accurate documentation utilizing CAD, while employing a high degree of expertise gained through ones' experience, coupled with a full range of analytical skills. A practical knowledge of machine shop techniques and systems hardware. The ability to interact with other engineering and design personnel, to solve and resolve problems in consultation with customers. Finally, a proven track record of initiative and resourcefulness to accomplish this myriad of tasks is essential.

10432 – Hall A/C Mechanical Engineer

SALARY RANGE: \$67,000 - \$132,600 (SE II/III)

EXPERIENCE/EDUCATION REQUIREMENTS:

B.S. or M.S. Degree in Mechanical Engineering or Physics with at least four (4) years experience in an engineering capacity for the SE II Level or over ten (10) years experience for SE III Level. The candidate should have a demonstrated fluency with 3D CAD software design tools. The candidate should have experience with engineering analysis tools such as Fluid Dynamics Codes, Finite Element Analysis or TOSCA 3D Magnetic analysis. Demonstrated engineering experience in several of the following areas is required: vacuum systems, load-bearing support structures, electro magnets, cryogenics, pressure vessel and pressure piping, superconducting magnets, physics particle detectors, cryogenic hydrogen and deuterium targets, load bearing positioning and alignment mechanisms. Prior work experience as an engineer at a National Laboratory, Industrial Research Laboratory or University Research facility, and previous experience supervising designers are desirable.

10454 – Hall B. Mechanical Engineer

SALARY RANGE: \$67,000 - \$132,600 (SE II/III)

EXPERIENCE/EDUCATION REQUIREMENTS:

B.S. or M.S. Degree in Mechanical Engineering or Physics with at least four (4) years experience in an engineering capacity for the SE II Level or over ten (10) years experience for SE III Level. The candidate should have a demonstrated fluency with 3D CAD software design tools. The candidate should have experience with engineering analysis tools such as ANSYS, Nastran, IDEAS, doing either mechanical, thermal or fluid dynamic analysis or TOSCA 3D Magnetic analysis. Demonstrates engineering experience in several of the following areas is required: cryogenics, pressure vessel and pressure piping, vacuum systems, load-bearing support structures, electro magnets, superconducting magnets, physics particle detectors, cryogenic hydrogen and deuterium targets, load-bearing positioning and alignment mechanisms. Prior work experience as an engineer at a National Laboratory, Industrial Research Laboratory or University Research facility, and previous experience supervising designers are desirable.

10466 – Hall D Engineer

SALARY RANGE: \$67,000 - \$132,000 (SE II/III)

EXPERIENCE/EDUCATION REQUIREMENTS:

B.S. Degree in Mechanical Engineering with greater than ten (10) years of documented experience in managing complex projects to completion is essential. The successful candidate will have a good background in several areas of mechanical design including finite-element analysis, cryogenics, structures, welding, magnet design, and vacuum systems. Subjects that will be applicable include heat transfer, fluid flow, composites, and controls. Demonstrates fluency with 3D CAD software design and engineering analysis tools such as ANSYS or TOSCA is desirable. Good communication skills and ability to interact with other engineers, designers, technicians, scientists, and procurement personnel are required. Knowledge of particle detectors, electronics, cryogenic targets, superconducting magnets, load positioning and alignment systems, as well as prior work experience in a precision environment such as accelerators or a complex industry such as aircraft is highly desirable. Previous supervisory experience is a plus.

10468 – Magnet Engineer

SALARY RANGE: \$53,200 - \$84,000 (SE I)

\$67,000 - \$105,800 (SE II)

EXPERIENCE/EDUCATION REQUIREMENTS:

BS or MS in Mechanical Engineering. To qualify for the higher level position, four (4) or more years of engineering experience related to the mechanical design, manufacturing and testing of precision systems or equipment. A demonstrably strong analytical background with the ability to work within a diverse team environment to arrive at an optimized and robust design is required. An understanding of basic Electrical Engineering fundamentals is beneficial. Familiarity with FEA simulation packages and the desire to learn the operation of mechanical and magneto-static simulation packages is beneficial. Good communications skills and the ability to interact constructively with physicists, engineers, designers, technicians, and procurement personnel are required.

10470.1 – Mechanical Design Engineer

POSTING REVISED (TERM POSITION ENDING FOUR YEARS FROM HIRE DATE)

SALARY RANGE: \$53,200 - \$84,000 (SE I)

\$67,000 - \$105,800 (SE II)

EXPERIENCE/EDUCATION REQUIREMENTS:

A BS or MS Degree in Engineering or Physics is required. Additional experience in a precision environment such as accelerators or a complex industry such as aircraft will be considered toward the higher position. An appreciation of several areas of Mechanical Engineering with an emphasis on structures, material science, fluid flow, and heat transfer is required. Knowledge of cryogenics, vacuum, magnet design, vibration, water systems, and/or stress analysis is desired. The incumbent should be capable of generating practical design solutions by utilizing their knowledge of machine shop techniques and systems hardware. The ability to interact with other engineering and design personnel to solve and resolve problems in consultation with customers is also desired. Finally, a proven track record of initiative and resourcefulness to accomplish these varied tasks is essential.

10470.2 – Mechanical Design Engineer

POSTING REVISED (TERM POSITION ENDING FOUR YEARS FROM HIRE DATE)

SALARY RANGE: \$53,200 - \$84, 000 (SE I)
 \$67,000 - \$105,800 (SE II)

EXPERIENCE/EDUCATION REQUIREMENTS:

A BS or MS Degree in Engineering or Physics is required. Additional experience in a precision environment such as accelerators or a complex industry such as aircraft will be considered toward the higher position. An appreciation of several areas of Mechanical Engineering with an emphasis on structures, material science, fluid flow, and heat transfer is required. Knowledge of cryogenics, vacuum, magnet design, vibration, water systems, and/or stress analysis is desired. The incumbent should be capable of generating practical design solutions by utilizing their knowledge of machine shop techniques and systems hardware. The ability to interact with other engineering and design personnel to solve and resolve problems in consultation with customers is also desired. Finally, a proven track record of initiative and resourcefulness to accomplish these varied tasks is essential.

10470.3 – Mechanical Design Engineer

POSTING REVISED (TERM POSITION ENDING FOUR YEARS FROM HIRE DATE)

SALARY RANGE: \$53,200 - \$84, 000 (SE I)
 \$67,000 - \$105,800 (SE II)

EXPERIENCE/EDUCATION REQUIREMENTS:

A BS or MS Degree in Engineering or Physics is required. Additional experience in a precision environment such as accelerators or a complex industry such as aircraft will be considered toward the higher position. An appreciation of several areas of Mechanical Engineering with an emphasis on structures, material science, fluid flow, and heat transfer is required. Knowledge of cryogenics, vacuum, magnet design, vibration, water systems, and/or stress analysis is desired. The incumbent should be capable of generating practical design solutions by utilizing their knowledge of machine shop techniques and systems hardware. The ability to interact with other engineering and design personnel to solve and resolve problems in consultation with customers is also desired. Finally, a proven track record of initiative and resourcefulness to accomplish these varied tasks is essential.

10471 – SRF Process Equipment Engineer

SALARY RANGE: \$67,000 - \$132,600 (SE II/III)

EXPERIENCE/EDUCATION REQUIREMENTS:

BS or MS Degree in Engineering with a minimum of seven (7) years of relevant experience. Requires a minimum of seven (7) years experience in the design, operation, and maintenance of high purity facility systems, including ultrapure water, specialty gas delivery, chemical delivery, acid waste neutralization, and metals precipitation systems. Experience in the maintenance of process tools such as those used for electro and chemical polishing of metals is required. Experience in the design, operation, and maintenance of cryogenic fluids and systems is also desired. Familiarization with the design, operation, and maintenance of clean rooms and clean room air handling is desired. Demonstrated ability to do independent research and proven analytical skills. Good communications skills and the ability to interact constructively with physicists, engineers, designers, technicians, and procurement personnel are required. Demonstrated advanced technical writing skills are required. Knowledgeable in the creation of P&I diagrams; visual acuity and keyboarding capabilities sufficient to use design software. Mechanical dexterity sufficient to handle and assemble technical components with weights up to 50 lbs.

10473 – SRF Production Engineer

SALARY RANGE: \$67,000 - \$132,600 (SE II/III)

EXPERIENCE/EDUCATION REQUIREMENTS:

BS Ch. E. or similar Degree with seven (7) years or MS Degree with five (5) years experience in a manufacturing environment, preferably with SRF cavities. Direct expertise in planning and managing production activities; direct experience designing and constructing chemical processing equipment; experience with electro and acid-based chemical etching and high pressure rinsing of SRF cavities is desired; expertise in SRF cavity production processes, tools and equipment is desired; familiarity with AutoCAD or Pro-E.

Physical Requirements: Visual acuity and keyboarding capabilities sufficient to use production and engineering software; mechanical dexterity sufficient to handle and assemble technical components with weights up to 50 lbs; ability to safely wear appropriate chemistry PPE and clean room garb for extended periods and have personal habits consistent with ISO 4 clean room work performance.

10479 – Environmental Engineer/Scientist

SALARY RANGE: \$67,000 - \$105,800 (SE II)

EXPERIENCE/EDUCATION REQUIREMENTS:

Bachelor Degree in Environmental Engineering, Environmental Science, or related field and at least four (4) years of relevant professional experience. Serves as Jefferson Lab's subject matter expert for compliance activities and reporting associated with local and state environmental permits. Position will define the scope of environmental sampling efforts and lead the effort in obtaining, analyzing, interpreting and on-time reporting of appropriate results meeting all quality standards. Position will remain cognizant of lab activities falling under or affecting permit conditions, anticipate the affect of changing conditions on permit reporting and compliance, and identify the need for modified or new environmental permits. Position will also monitor lab activities to identify and complete necessary actions in accordance with the National Environmental Policy Act (NEPA) in accordance with established Jefferson Lab procedures.

SCIENTISTS

10417 – SRF Scientist

SALARY RANGE: \$53,200 - \$84,000 (SS I)

EXPERIENCE/EDUCATION REQUIREMENTS:

A PhD in Physics or Engineering is required together with specific experience in superconducting RF cavities and materials. Demonstrated track record of publication in advanced research is required. The candidate must be able to work in collaboration with others to solve complex problems efficiently and be able to communicate effectively with other JLab staff and international colleagues. Demonstrated ability to understand and comply with safe-work procedures such as applies to Jefferson Lab activities, including the ability to safely use prescribed PPE and cleanroom clothing.

10469 – Hall A Staff Scientist

SALARY RANGE: \$53,200 - \$105,800 (SS I/II)

EXPERIENCE/EDUCATION REQUIREMENTS:

A Ph.D in Experimental Nuclear or Particle Physics and at least three (3) years of postdoctoral experience in an Experimental Nuclear or Particle Physics environment or an equivalent combination of education and experience. Candidate should have demonstrated leadership in several research programs and the ability to conceive original physics experiments with electromagnetic probes. A strong background in a technical area such as instrumentation, software design or data analysis is required. Demonstrated ability to lead a team effort to achieve high quality experimental research and broad experience in electromagnetic particle or nuclear physics as well as experience with large acceptance detectors is required.

Applicants should provide Curriculum Vitae on-line and have copies of recent unpublished work, along with three (3) letters of reference sent to: Human Resources Consultant, JSA/Jefferson Lab, 628 Hofstadter Road, Suite 2, Newport News, VA 23606

10475 – Post Doctoral Fellow in Theoretical Nuclear/Hadronic Lattice Physics (TERM POSITION ENDING TWO YEARS FROM HIRE DATE)

SALARY RANGE: \$47,600 - \$71,600 (PD)

EXPERIENCE/EDUCATION REQUIREMENTS:

A Ph.D. in Theoretical, Nuclear, Particle, or High-Energy Astrophysics is required.

Applicants should submit a Curriculum Vitae, copies of any recent (un)published work, and arrange to have letters from three (3) references sent to: Jefferson Lab, Attn: Human Resources Department, Mail Stop 28D 628 Hofstadter Road-Suite 2, Newport News, VA 23606

10477 – Post Doctoral Fellow – Excited Baryon Analysis Center

(TERM POSITION ENDING TWO YEARS FROM HIRE DATE)

SALARY RANGE: \$47,600 - \$71,600 (PD)

EXPERIENCE/EDUCATION REQUIREMENTS:

Ph.D. in Theoretical, Nuclear, Particle, or High-Energy Astrophysics.

Applicants should submit a Curriculum Vitae, copies of any recent (un)published work, and arrange to have letters from three (3) references sent to: Jefferson Lab, Attn: Human Resources Department, Mail Stop 28D 628 Hofstadter Road-Suite 2, Newport News, VA 23606

10480 – Post Doctoral Fellow in Lattice QCD

(TERM POSITION ENDING TWO YEARS FROM HIRE DATE)

SALARY RANGE: \$47,600 - \$71,600 (PD)

EXPERIENCE/EDUCATION REQUIREMENTS:

Ph.D. in Theoretical Nuclear, Particle, or High-Energy Astrophysics is required.

Applicants should submit a Curriculum Vitae and copies of any recent (un)published work on-line. In addition, please arrange to have three (3) letters of reference emailed to Yvonne Cutler (yhcutler@jlab.org) or mailed to: Jefferson Lab, Attn: Human Resources Department, Mail Stop 28D, 628 Hofstadter Road-Suite 2, Newport News, VA 23606

TECNICIAN/DRAFTER

10427 – SRF Chemroom Technician (REV)

SALARY RANGE: \$34,600 - \$61,900 (TD I/II)

EXPERIENCE/EDUCATION REQUIREMENTS:

AA Degree or High School Graduate with at least three (3) years relevant experience or equivalent combination of education and experience. Must have demonstrated competency with Microsoft Office software; ability to perform work while utilizing chemically resistant PPE is required; ability to lift moderate loads up to 50 lbs, climb ladders, and operate machinery and equipment. Must demonstrate good manual dexterity to complete tasks such as mechanical and electrical or electronic troubleshooting and wiring, and to make precision mechanical measurements. Must have good visual acuity for precise mechanical tasks and reading meters, gauges, etc. Demonstrated ability to operate crane and forklifts in order to transport fragile equipment.

10443 – Vacuum Technician

SALARY RANGE: \$34,600 - \$47,000 (TD I)
 \$45,500 - \$61,900 (TD II)

EXPERIENCE/EDUCATION REQUIREMENTS:

High School Diploma plus three (3) years experience or AA Degree in a relevant field. Requires knowledge of the proper use of hand tools, hardware, safe work practices, read and interpret assembly drawings, experience with mechanical assembly, troubleshooting using an array of electro-mechanical tools. Familiarity of working with computers and applications such as MS Word, Excel, etc. Good team-working skills and ability to work in diverse environments with a broad spectrum of people and personalities. Ability to work off-hours, weekends, and overtime as required. Incumbent will be requested to take required training to satisfy working in the MSINST Group, such as, but not limited to: Oxygen Deficiency Hazard, Fork Truck, Crane and Rigging, Aerial lift, and Radiation Worker I, etc.

10452 – SRF Mechanical Fabrication & Assembly Technician (REV)

SALARY RANGE: \$34,600 - \$47,000 (TD I)

EXPERIENCE/EDUCATION REQUIREMENTS:

AA Degree or High School Graduate with three (3) years relevant experience or equivalent combination of education and experience. Desired skill set includes ability to obtain and keep current all safety training relative to work activities; experience with fabricating and assembling components for vacuum service; experience with fabricating and assembling components for cryogenic service; ability to read and interpret technical blueprints and drawings; mechanical aptitude and ability to disassemble repair and re-assemble complex components. Must have working knowledge of piping systems, their components and the function of each component; working knowledge of the operation lathes, mills and other machines routinely found in a machine shops, and the ability to produce parts from drawings, sketches or verbal instructions. Working knowledge of operation of equipment used in sheet metal and plate work such as brakes, rollers, nibblers, etc. Must pass all medical requirements to be qualified as a Radiation Worker 1, ODH, Crane Operator, and Forklift Operator. Must be able to climb and work in close quarters. Familiarity with the Windows and UNIX operating systems; and experience with MS Office tools. Team working skills and the ability to work in diverse environments with a broad spectrum of people and personalities; excellent writing skills with the ability to write concise and accurate procedures. Ability to work off-hours, weekends, and overtime as required.

Physical Requirements: Ability to lift moderate loads up to 50 lbs, climb ladders, and operate machinery and equipment. Good manual dexterity to complete tasks such as mechanical and electrical or electronic troubleshooting and wiring, and to make precision mechanical measurements. Good visual acuity for precise mechanical tasks and reading meters, gauges, etc.

10463.1 – Mechanical CAD Designer

SALARY RANGE: \$45,500 - \$61,900 (TDII)
 \$55,900 - \$76,100 (TD III)

EXPERIENCE/EDUCATION REQUIREMENTS:

A.A. Degree plus three (3) years experience or High School Graduate with six (6) years relevant experience or equivalent combination of education and experience in the Engineering and Design field is required to fill this position. Specifically, the candidate must have practical experience producing mechanical designs and fabrication drawings. This particular position requires incumbent to have extensive knowledge of 2D and 3D software and blueprint interpretation, and geometric tolerances. Candidate will work directly with engineers and physicists and as such, must be an effective communicator and a team participant.

10463.2 – Mechanical CAD Designer

SALARY RANGE: \$34,600 - \$61,900(TD I/ II)

EXPERIENCE/EDUCATION REQUIREMENTS:

A.A. Degree plus three (3) years experience or High School Graduate with six (6) years relevant experience or equivalent combination of education and experience in the Engineering and Design field is required to fill this position. Specifically, the candidate must have practical experience producing mechanical designs and fabrication drawings. This particular position requires incumbent to have extensive knowledge of 2D and 3D software and blueprint interpretation, and geometric tolerances. Candidate will work directly with engineers and physicists and as such, must be an effective communicator and a team participant.

10465 – Mechanical Draftsperson

SALARY RANGE: \$34,600 - \$47,000 (TD I)
\$45,500 - \$61,900 (TD II)

EXPERIENCE/EDUCATION REQUIREMENTS:

A.A. Degree or High School Graduate plus three (3) years experience in the drafting and design field is required. Specifically, the candidate must have practical hands-on experience in the generation of orthographic drawings. Past experience of machining and metal fabrication will be considered as a strong plus in the final selection. Candidate will work in a professional environment with engineers and physicists. As such, candidate must be an effective communicator and able to work within the structure of a technical team.

10467 - Control System Computer Scientist

SALARY RANGE: \$67,000 - \$132,600 (SCS II/III)

EXPERIENCE/EDUCATION REQUIREMENTS:

Bachelor's Degree in Computer Science, Physics or Engineering. A Master's Degree is preferable for the level of SCSIII. At least five (5) years (SCSII) to ten (10) years (SCSIII) experience developing real-time control application software is required. A demonstrated ability to successfully complete complex programming efforts, interfacing directly with customers, is also required. Experience with the development of EPICS low-level control applications is highly desirable, as is experience with VxWorks or RTEMS. Demonstrated Electrical Engineering experience is desired but not required.

10472 – SRF Process Equipment Technician

SALARY RANGE: \$34,600 - \$61,900 (TD I/II)

EXPERIENCE/EDUCATION REQUIREMENTS:

AA Degree or High School Graduate with three (3) years relevant experience or equivalent combination of education and experience in the operation and maintenance of high purity facility systems, including ultrapure water, specialty gas delivery, chemical delivery, acid waste neutralization and metals precipitation systems. Basic understanding of acid-base chemistry, electronics, and mechanics as it pertains to facilities equipment is also required. Experience operation and maintenance of cryogenic liquid systems is desired. Familiarization with the operation and maintenance of clean rooms and clean room air handling is desired. Demonstrated ability to work with minimal supervision, understand instructions, ask questions and report to supervisor clearly on problems, status, and progress. Good communications skills and the ability to interact constructively with physicists, engineers, technicians, and procurement personnel are required.

Physical Requirements: Mechanical dexterity sufficient to handle and assemble technical components with weights up to 50 lbs.

10474 – Alignment Technician

SALARY RANGE: \$\$34,600 - \$47,000 (TD I)
 \$45,500 - \$61,900 (TD II)

EXPERIENCE/EDUCATION REQUIREMENTS:

Associates Degree in Surveying, Engineering Technology or related field, and some measurement or surveying experience or an equivalent combination of education, experience and training. A basic understanding of coordinate systems, trigonometry and general mathematics is required with the ability to clearly record, reduce, summarize, and report on workplace activities and procedures. Operational familiarity with windows based applications software (e.g., Word and Excel) and good problem solving, analytical, and quantitative skills are desirable. Must be able to meet physical requirements for ODH and Radiation worker. Ability to climb stairs and ladders; able to lift instruments, cases and equipment up to 65 lbs. Vision adequate for accurate sighting of targets through theodolite. Able to stand and move freely around delicate equipment.

10476 – Electronic/Mechanical Technician

SALARY RANGE: \$45,500 - \$76,100 (TD II/III)

EXPERIENCE/EDUCATION REQUIREMENTS:

Relevant AS Degree plus three (3) years equivalent experience. Demonstrated knowledge of electronics and controls including troubleshooting and documentation; must be proficient with hand and power tools; ability to multi-task and follow written and verbal instructions; ability to communicate verbally and in writing; experience with Microsoft Office is a plus; experience with larger shop equipment such as drill presses, milling machines, lathes, and sanders is a plus; knowledge of cryogenics and vacuum is desirable. Previous cryogenics safety training, including ODH training is also desirable. Must learn to operate forklifts, cranes, and manlifts. *Physical Requirements:* Must be able to climb stairs and ladders, work in confined spaces, work comfortably at a height of 50 feet, and lift up to 40 lbs.

SKILL TRADES

None