Jefferson Lab
Thomas Jefferson National Accelerator Facility

Date: February 3, 2010

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

JOB OPPORTUNITIES BULLETIN
***WEB SITE:* http://www.jlab.org/jobs**

APPLICATION PROCEDURE:

To apply, go to the web site www.jlab.org/jobs. In the box, use the search tool below to find the job that best suits your skills and interests. You may then build a profile, submit your personal information, and apply for any available position.

COMPUTER PROFESSIONALS

10523 – Database Programmer/Analyst (REV)
SALARY RANGE: $53,200 - $84,000 (SCS I)

EXPERIENCE/EDUCATION REQUIREMENTS:
Bachelor's Degree with a concentration in Computer Science or related field and experience developing Java/J2EE-based or object-oriented web-oriented solutions. Must be a US citizen.

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.

10389 – Electronics Engineer
SALARY RANGE: $65,300 - $103,100 (SE II)

EXPERIENCE/EDUCATION REQUIREMENTS:
Bachelor of Science Degree in Electrical Engineering or related field, Masters 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 are 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 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.

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.

10484 – Electrical Engineer
SALARY RANGE: $67,000 - $105,800 (SE II)

EXPERIENCE/EDUCATION REQUIREMENTS:
Bachelor's Degree in Electrical Engineering plus related graduate or continuing engineering courses. Experience in the management of construction and maintenance projects is required. In depth knowledge of construction and industrial safety practices is required. Four (4) to six (6) years of experience in Electrical Engineering planning, design, construction, and maintenance. Successful candidates must have effective verbal/written communications, time management, interpersonal and organizational skills; must display high level of initiative and demonstrated ability to manage multiple projects with clear expectations and timelines; ability to work collaboratively with individuals at all levels in the organization in a team environment. Must have good computer skills with AutoCAD, Microsoft Word, Excel, and Access.

10488.1 – Cryogenics Mechanical Engineer
SALARY RANGE: $67,000 - $105,800 SEII
$83,800 - $132,600 SE III

EXPERIENCE/EDUCATION REQUIREMENTS:
Masters in Mechanical or Chemical Engineering plus two (2) years of experience or BS plus four (4) years of relevant experience or an equivalent combination of education and experience. Competence in several areas of Mechanical Engineering with emphasis on mechanical stress analysis, structures, thermodynamics, fluid mechanics, heat transfer, vacuum technology and cryogenics; experience in resource and project planning including development of work assignments with task and schedule constraints; directing other engineers, designers, and fabrication/installation technicians. The ability to understand customer needs and match the system operation to meet the customer needs at the maximum possible efficiency. Experience in process analysis of the operating and new cryogenic systems; experience in the selection of components and evaluation of various options based on cost and schedule. Pressure vessel and piping code knowledge and the ability to perform the required analysis; working knowledge of machine shop, fabrication techniques, and systems hardware, and the ability to lead and manage multiple tasks with cost and schedule constraints.

104882.2 – Cryogenics Mechanical Engineer
SALARY RANGE: $83,800 - $132,600 (SE III)

EXPERIENCE/EDUCATION REQUIREMENTS:
Masters in Mechanical or Chemical Engineering plus two (2) years of experience or BS plus four (4) years of relevant experience or an equivalent combination of education and experience. Competence in several areas of Mechanical Engineering with emphasis on mechanical stress analysis, structures, thermodynamics, fluid mechanics, heat transfer, vacuum technology and cryogenics. Experience in resource and project planning including development of work assignments with task and schedule constraints; directing other engineers, designer, and fabrication/installation technicians. The ability to understand customer needs and match the system operation to meet the customer needs at the maximum possible efficiency. Experience in process analysis of the operating and new cryogenic systems; experience in the selection of components and evaluation of various options based on cost and schedule. Pressure vessel and piping code knowledge and the ability to perform the required analysis; working knowledge of machine shop, fabrication techniques and systems hardware, and the ability to lead and manage multiple tasks with cost and schedule constraints.

10502 – Electrical/Electronic Engineer
SALARY RANGE: $67,000 - $132,600 (SE II/III)

EXPERIENCE/EDUCATION REQUIREMENTS:
BS in Electronic Engineering with a minimum of ten (10) years experience in electronics design in support of radioisotope detector development. Experience in scintillator and solid state based radiation detector instrumentation and nuclear medicine based detector systems such as those used in SPECT, PET and X-ray CT is desired. The candidate should demonstrate a strong interest and capability in research and development, systems engineering, electronics systems design, and prototype development. A strong capability in analog electronics for low noise pulse generation and filtering, high energy particle event timing, and coincidence detection techniques. Additionally, the candidate should also have experience with high voltage power supply design and development. A demonstrated experience in project management, scientific publication, proposal writing, and college level instructing will be strongly considered

10524 – Engineering Division Deputy
SALARY RANGE $101,600 - $160,600 (SSE)

EXPERIENCE/EDUCATION REQUIREMENTS:
A BS in Engineering with at least fifteen (15) years of experience is required. An advance degree in Engineering or Engineering Management is desired. A proven track record of managing large and complex multi-disciplinary engineering projects is required. Experience in the design, construction and/or operation of large and complex machines such as power plants, large engineering and manufacturing facilities or particle accelerators is highly desirable. Familiarity with common budgeting practices, performance management techniques, engineering management process development, and staff development/mentorship is required. The ability to translate high level laboratory goals and priorities to provide guidance to several large and diverse groups in the areas of Mechanical and Electrical Engineering is necessary. The ability to communicate effectively, work with and supervise all levels of staff from field technicians to senior engineers and physicists is absolutely necessary. Familiarity with formal project management techniques is beneficial. Safety in the workplace is of utmost importance at Jefferson Lab so a familiarity with safety practices and policies that have proven track records for being successful in high hazard workplaces is highly desirable.

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.

10426 – Accelerator Science Post Doctoral Fellow

(TERM POSITION ENDING TWO YEARS FROM HIRE DATE)

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

EXPERIENCE/EDUCATION REQUIREMENTS:
Ph.D. in Accelerator Physics, High Energy Physics, or Nuclear Physics. Demonstrated ability in numerical techniques as applied to particle accelerators. Applicants with a working knowledge, familiarity, and fluency in a number of electromagnetic simulation codes (Microwave Studio, Omega3P, MAFIA) and beam dynamics codes, and of elements of the local computing environment (UNIX, Tk/Tcl, EPICS) will be preferred.

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

10482 – Control System Scientist
SALARY RANGE: $53,200 - $84,000 (SCS I)

EXPERIENCE/EDUCATION REQUIREMENTS:
A Bachelor's Degree in Computer Science, Engineering, or Physics is required. A demonstrated ability to successfully complete complex programming efforts, interfacing directly with customers, is also required. The successful candidate must have shown the ability to work productively as an individual and as a team member while completing work in a timely manner. At least two (2) years of experience developing hardware device control software for real-time applications are required. Demonstrated knowledge of VxWorks or another real-time operating system is highly desirable, as is experience with the EPICS control system toolkit. The successful candidate will have some experience developing applications in C or C++ in a UNIX or Linux environment.

10501 – Hall A Post Doctoral Associate

(TERM POSITION ENDING THREE YEARS FROM HIRE DATE)
SALARY RANGE: $47,600 - $71,600 (PD)

EXPERIENCE/EDUCATION REQUIREMENTS:
A Ph.D. in Experimental Nuclear, Particle, or High-Energy Astrophysics is required. Experience in analyzing data from intermediate/high energy experiments is essential. A solid background in lepton-nucleus physics would be beneficial.
Applicants should send Curriculum Vitae, copies of recent unpublished work, and arrange to have letters from three (3) references sent to: Human Resources Consultant, JSA/Jefferson Lab, 628 Hofstadter Road, Suite 2, Newport News, VA 23606.

10507 – Coordinator for Drift Chambers Construction and Testing

(TERM POSITION ENDING THREE YEARS FROM HIRE DATE)
SALARY RANGE: $53,200 - $84,000 (SS I)

EXPERIENCE/EDUCATION REQUIREMENTS:
Ph.D. in Experimental Nuclear, Particle, or High-energy Astrophysics or equivalent experience is required. Practical experience in building and testing of drift chambers of comparable scale is essential.

10515 – Hall C Post Doctoral Associate

(TERM POSITION ENDING THREE YEARS FROM HIRE DATE)
SALARY RANGE: $47,600 - $71,600 (PD)

EXPERIENCE/EDUCATION REQUIREMENTS:
Ph.D. in Experimental Nuclear, Particle, or High-energy Astrophysics is required. Experience in analyzing data from intermediate/high energy experiments is essential.
Applicants should send a Curriculum Vitae, copies of recent unpublished work, and arrange to have letters from three (3) references sent to: Human Resources Consultant, Jefferson Lab, Mail Stop 28D, 628 Hofstadter Road, Suite 2, Newport News, VA 23606.

10519 – HDice Post Doctoral Fellow

(TERM POSITION ENDING THREE YEARS FROM HIRE DATE)

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

EXPERIENCE/EDUCATION REQUIREMENTS:
PhD in either Experimental Nuclear/Particle Physics or in Low-Temperature Physics. A background in experiments using electromagnetic probes to study the structure of nucleons or nuclei is preferred but not required. Cryogenic experience is an asset.
Applicants should submit a Curriculum Vitae on-line and have copies of any recent published or unpublished works, along with letters from three (3) references (noting position number in subject line) emailed to yhcutler@jlab.org OR sent to: Jefferson Lab, Attn: Human Resources Department, Mail Stop 28D, 628 Hofstadter Road,-Suite 2, Newport News, VA 23606

10525 – Staff Scientist I

SALARY RANGE: From $70,000 per year

APPLICATION DEADLINE: FEBRUARY 9, 2010

EXPERIENCE/EDUCATION REQUIREMENTS:
Ph.D. in Physics with four (4) years experience in job offered. Dissertation in Experimental Nuclear Physics. Hands-on experience in designing, building and implementing detector packages. Must have developed and commissioned drift chambers, gas Cherenkovs, and calorimeters. Job in Newport News, Monday-Friday; no overtime. Applicants should send cover letter with Curriculum Vitae, references and salary requirements to: ewing@jlab.org or to Jefferson Science Associates LLC, 628 Hofstadter Rd, Suite 2, Newport News, VA 23606 Attn: Susan Ewing.

TECHNICIAN/DRAFTER

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.

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.

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.

10489.1 – Mechanical Technologist
SALARY RANGE: $34,600 - $61,900 (TD I/II)
(TERM POSITION ENDING ONE YEAR FROM HIRE DATE)

EXPERIENCE/EDUCATION REQUIREMENTS:
High School Diploma plus three (3) years experience or AS Degree. Must have documented fabrication experience; be proficient with hand and power tools; have documented experience with larger shop equipment such as drill presses, milling machines, lathes and sanders. Ability to multi-task and follow written and verbal instructions; ability to communicate verbally and in writing. Experience with Microsoft Office is a plus. Knowledge of cryogenics and vacuum is desirable; 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.

10493 – Hall D Mechanical Technician (REV)
SALARY RANGE: $34,600 - $61,900 (TD I/II)

(TERM POSITION ENDING THREE YEARS FROM HIRE DATE)

EXPERIENCE/EDUCATION REQUIREMENTS:
Relevant AS Degree or High School Graduate with three (3) years experience or equivalent combination of experience and education. Demonstrated ability to understand instructions, ask questions and clearly report to supervisor on problems, progress, and status. Proven proficiency in the use of common hand tools, (drills, saws, etc.) Knowledge of welding and brazing desirable. Some knowledge of electronics desirable.
Physical Requirements: Able to climb stairs and ladders, able to work comfortably at a height of 30 feet, and able to lift 50 lbs.

10517 – Hall A Electronic/Mechanical Technician
SALARY RANGE: $45,500 - $61,900 (TD II)

(TERM POSITION ENDING ONE YEAR FROM HIRE DATE)

EXPERIENCE/EDUCATION REQUIREMENTS:
Relevant AS Degree plus three (3) years relevant 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.

10520 – Hall A Mechanical Designer
SALARY RANGE: $34,600 - $47,000 (T/D I)

(TERM POSITION ENDING ONE YEAR FROM HIRE DATE)

EXPERIENCE/EDUCATION REQUIREMENTS:
This position requires an AS Degree in Engineering or Design, or High School Graduate plus three (3) years experience or an equivalent combination of education, relevant experience and specific training. The candidate must have Computer Aided Design (experience with I-DEAS software is a plus) experience, good communication skills, and the ability to work well with team members.

SKILL TRADES

None