



## Example Internship Opportunities

<b>Company:</b> DOE-RL	<b>Academic Standing:</b> Junior/Senior	<b>Desired Majors:</b> Electrical Engineering
<b>Description:</b>	<p><b>C&amp;I work</b></p> <p>Support verification of hardware associated with safety instrumented functions defined in the PDSA and depicted on P&amp;IDs. This work will require (with help from an intern) obtaining P&amp;IDs and getting familiar with them. (Good practical learning.) The work will also involve learning what a safety instrumented function is and understanding associated technical terminology. Also, review of the PDSA will be required. (Another good learning opportunity).</p> <p><b>Software work</b></p> <p>Support assessment reports, with half (or more) of his/her time for three months. The intern will need electrical, computer engineering, or controls engineering major or equivalent, with good writing skill, and can read control logics, architecture diagrams, or one-line diagrams, with basic I&amp;C or PLC knowledge will be super.</p> <p><b>Electrical work</b></p> <p>Assistance will be needed to finish gleaning information obtained from an effectiveness review of BNI's CAP for the Management Concerns Related to Procurement. Additionally, oversight documentation will be needed for planned walk downs with AHJ inspectors performing AHJ inspections at the WTP. The intern will also assist with reviewing past AHJ rulings and reporting on BNI's effectiveness in performing the role of the AHJ. This will give the student insight into the roles and responsibilities of those involved with procurement and the role of the AHJ in a construction project.</p>	
<b>Company:</b> CHPRC	<b>Academic Standing:</b> Senior/Graduate	<b>Desired Majors:</b> Chemical Engineering, Environmental Engineering
<b>Description:</b>	<p>Perform engineering calculations and graphical analysis related to the operation of a state of the art treatment facility. Examples include updating of the process model, performing engineering tests, and engineering evaluations.</p>	

## ANR Group Inc – Internship Opportunities

<b>Company:</b> MSA	<b>Academic Standing:</b> Junior	<b>Desired Majors:</b> Business/Accounting
<b>Description:</b>	Support exercise program coordinators develop new processes for documenting completion of objectives and lines of inquiry included in the site-wide exercise objectives matrix. Support the development, conduct and control of exercises. Responsible for recruiting controllers, actors and evaluators, providing logistical support to ensure proper control cell set-up, training, and writing controller instructions. Must be proficient in Microsoft Office to include Word and PowerPoint, with some basic experience in Excel. Individual must be a self-starter with good prioritization, communication, and coordination skills to provide direction to a volunteer organization.	
<b>Company:</b> CHPRC	<b>Academic Standing:</b> Junior	<b>Desired Majors:</b> Business/Accounting
<b>Description:</b>	Assist Spare parts Subject Matter Expert with a variety of tasks including processing expired materials, updating MAGs. Will review FY 2009/2010 PCard records and scan them into IDMS system. Will also assist the Procurement organization with a variety of tasks. Opportunity to learn Asset Suite, PCard and eBOM systems, and Access.	
<b>Company:</b> MSA	<b>Academic Standing:</b> Sophomore	<b>Desired Majors:</b> Business Administration; Computer Science; Education
<b>Description:</b>	<p>Work for HAMMER and the HAMMER project directly supporting the DOE National Training Center. Anticipated support includes supporting all aspects of implementing the systematic approach to training and implementation of adult learning modalities. Position responsibilities will include the following.</p> <ul style="list-style-type: none"> <li>• Assist in the completion of the analysis and development of over 15 regulatory driven safety and health courses for use at Hanford and throughout the DOE complex.</li> <li>• Assist in the identification and implementation of course materials, exercises, evaluations, exams and other adult interactive learning. Computer/WEB course materials will also be developed and implemented.</li> <li>• Assist in upgrade of existing courses to reflect today’s learning technologies and use of various training management tools such as Vision, Enhanced Learning Management, PeopleSoft and other Microsoft software programs. Files will be maintained both electronically and in hard copy.</li> <li>• Prepare training related documentation, assist with meeting and training schedules and other training logistics activities.</li> <li>• Interact with students, customers, and other training professionals on a routine basis in a professional high performing training organization and has a representative of the HAMMER organization</li> </ul>	
<b>Company:</b> CHPRC	<b>Academic Standing:</b> Junior	<b>Desired Majors:</b> Civil/Structural Engineering
<b>Description:</b>	Assist 300-296 Project structural engineer in the evaluation and preparation of structural design documents. Perform structural analyses as directed by the structural engineer.	

## ANR Group Inc – Internship Opportunities

<b>Company:</b> DOE-ORP	<b>Academic Standing:</b> Junior/Senior	<b>Desired Majors:</b> Mechanical Engineer, Chemical Engineer
<b>Description:</b>	<p>System Design Reviews</p> <ul style="list-style-type: none"> <li>• Assistance will be needed supporting system design review contract submittals. Work will focus on requirement verification matrix, corrective action close out and attending meetings in support of this scope.</li> </ul> <p>LAW Pressure Vessel Repairs (Mechanical/Chemical Engineer)</p> <ul style="list-style-type: none"> <li>• Review of NCR/CDR closure for LAW pressure vessel repairs. Will need assistance researching data base for NCR/CDR's provide necessary support documentation for closure.</li> </ul> <p>DOORS database (Mechanical/Chemical Engineer)</p> <ul style="list-style-type: none"> <li>• Review of BOD/SRD requirements in support of addressing technical issues associated with DOORS database.</li> </ul> <p>LAW Pipe Spools</p> <ul style="list-style-type: none"> <li>• Assistance will be needed field locating 30+ AL6XN Pipe Spools in LAW facility. This will require safety training for field activities provided by WTP Contractor.</li> </ul> <p>Balance of Facilities (BOF)</p> <ul style="list-style-type: none"> <li>• List of open CRs for each BOF system (to add to my/Jason's overview binders)</li> <li>• Pull closed CRs for water treatment building/systems and verify adequacy of closure (also verify that issues presented in Technical Readiness Review have been addressed)</li> <li>• EMF calculation checks</li> </ul>	
<b>Company:</b> MSA	<b>Academic Standing:</b> Open	<b>Desired Majors:</b> Chemistry; Environmental; Computer Science; Business/Accounting; Legal; Chemical Engineering; Environmental Engineering
<b>Description:</b>	<ul style="list-style-type: none"> <li>• Will perform activities necessary to support parsing the permit and transferring the parsed elements into a database.</li> <li>• Transfer information from Microsoft Word files to Excel spreadsheets.</li> <li>• Additional tasks may include assisting the MSA RCRA permit lead/POC with various aspects of RCRA permit management and implementation. These activities could include, but not necessarily limited to:                     <ul style="list-style-type: none"> <li>○ Preparing contractor interface agreement documentation (addressing roles/responsibilities for RCRA permit management)</li> <li>○ Developing design/requirements documentation for computer programs used to support RCRA permit management</li> <li>○ Record-keeping</li> <li>○ Procedures development/maintenance</li> <li>○ Preparation of requirements traceability matrices</li> </ul> </li> </ul>	

## ANR Group Inc – Internship Opportunities

<b>Company:</b> DOE-RL	<b>Academic Standing:</b> Sophomore/Junior/Senior	<b>Desired Majors:</b> Chemical Engineering; Chemistry
<b>Description:</b>	The intern will be assigned and support the technical staff of the Sludge Treatment Team. The intern will review test procedures, test reports, and perform field oversight of testing operations. The primary tasks that the summer intern will be to review test results to verify that the test acceptance criteria have been met. Garth Reed, Team Lead for the Sludge Treatment Plant will be the assigned intern mentor.	
<b>Company:</b> MSA	<b>Academic Standing:</b> Sophomore/Junior	<b>Desired Majors:</b> Communications
<b>Description:</b>	Provide communications support to the Department of Energy Richland Operations office of Communications for public affairs activities. Duties include, but are not limited to, preparing, reviewing and editing Power Point presentations, fact sheets and other materials for public meetings, providing support at public meetings, working with project managers and SMEs to gather appropriate information, coordinating and participating in public committee meeting (teleconference), reviewing and organizing public comments.	
<b>Company:</b> DOE-ORP	<b>Academic Standing:</b> Sophomore/Junior/Senior	<b>Desired Majors:</b> Construction Management, Project Management, Mathematics, Civil Engineering
<b>Description:</b>	<ul style="list-style-type: none"> <li>• Works with assigned WPD mentor to be introduced to the WTP Project customized Work Breakdown Structure (WBS) database, and then to become familiar and efficient with its data mining and data extraction capabilities.</li> <li>• Analyzes monthly data and develops reports, automates the analysis, and provides support to their mentor.</li> <li>• Creates a customized monthly database report that automates the selection, sorting and calculation of certain EVMS values in an Excel spreadsheet format. This will be done through an Information Technology (IT) interlink with the monthly BNI COBRA project controls database output.</li> <li>• Generates a separate database report for each Discrete and Level of Effort (LOE) WBS account as a byproduct of the monthly database report. These, in-turn, will become essential project management tools that will help each corresponding Subject Matter Expert/Integrated Protect Team (IPT) member to focus attention on critical areas of their monthly EVMS analysis.</li> <li>• Analyzes Baseline Change Requests and Internal Forecast Trends for accuracy, completeness, and applicable DOE/CO guidance against applicable DOE Orders, Industry Standards, and best practices.</li> <li>• Spends ~1 to 2 days a week at the construction site walking down systems and equipment to verify if the BNI to-go quantities are accurate. The intern may also work with the WCD on walk-downs and assessments.</li> </ul>	
<b>Company:</b> MSA	<b>Academic Standing:</b> Junior/Senior	<b>Desired Majors:</b> Accounting, Business
<b>Description:</b>	Intern will work directly with the Controller and Cost Estimating Lead while performing daily timecard floor checks of all employees. Candidate will collect, analyze and present data on a weekly/monthly basis. Candidate will have the opportunity to provide input on areas of performance improvement. Candidate will gain knowledge of the MSA policies, procedures, Cost Accounting Standards (CAS) and the Federal Acquisition Regulations (FAR).	

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<b>Company:</b> CHPRC	<b>Academic Standing:</b> Sophomore/Junior/Senior/Graduate (BA/BS)	<b>Desired Majors:</b> Construction Management; Computer Science; Environmental Engineering
<b>Description:</b>	<ul style="list-style-type: none"> <li>• Work with minimal supervision to prepare and complete assigned requirements matrices within schedule</li> <li>• Work collaboratively with Subject Matter Experts (SME) and Project personnel to trace requirements and verify implementation</li> <li>• Collect information through effective interviewing and review of documents and records</li> <li>• Learn the principles of the Environmental Management System (EMS) and make recommendations for improvement</li> </ul>	
<b>Company:</b> DOE-RL	<b>Academic Standing:</b> Sophomore/Junior/Senior	<b>Desired Majors:</b> Environmental & Occupational Safety and Health, Health Science, Environmental Science, Safety Engineering
<b>Description:</b>	The intern would be performing work supporting RL employee's oversight of contractors Environmental, Safety and Health programs primarily. They would also be involved in some QA work, but the primary area of their work would be in Health and Safety Oversight. They will assist RL employees in performing oversight of contractors ES&H programs and apply Environmental and OSHA regulations in the field working with my SME's.	
<b>Company:</b> MSA	<b>Academic Standing:</b> Junior/Senior	<b>Desired Majors:</b> Design; Computer Science
<b>Description:</b>	Continue development of 3D Modeling for use in planning and procedure development. This may include learning new software and collaborate with permanent staff in gaining proficiency in its use. Data will be extracted or imported from existing AutoCad files into the selected software. Candidate will need experience in 3D and computer design to allow for the successful completion of this task within the schedule.	
<b>Company:</b> CHPRC	<b>Academic Standing:</b> Junior	<b>Desired Majors:</b> Electrical Engineering
<b>Description:</b>	Will work directly with the 200 WP&T Electrical Design Authority to investigate and resolve circuit breaker sizing in all electrical panels (CRRS item). In addition, an opportunity to prepare design upgrades for heat trace systems identified because of our severe winter (CRRS).	
<b>Company:</b> CHPRC	<b>Academic Standing:</b> Junior/Senior	<b>Desired Majors:</b> Mechanical Engineering, Chemical Engineering, Environmental Engineering
<b>Description:</b>	Assist Engineers in performing a variety of groundwater pump and treat facility support activities. Specifically, update pressure Relief Valve inventory, graph Chromium Ion Exchange performance, generates standard reference drawing for existing system. Extensive use of Excel, including pivot tables.	

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<b>Company:</b> CHPRC	<b>Academic Standing:</b> Junior/Senior/Graduate	<b>Desired Majors:</b> Environmental Science, Environmental Engineering, Chemistry
<b>Description:</b>	The intern will help to implement a new software application for scheduling sample collection from groundwater monitoring wells and aquifer tubes. Using groundwater monitoring schedule information, the intern will develop a spreadsheet to determine the number, types, and cost of analyses from collected samples in FY17. The intern will accompany sampling teams to observe how groundwater samples are collected.	
<b>Company:</b> DOE-ORP	<b>Academic Standing:</b> Sophomore/Junior/Senior	<b>Desired Majors:</b> Communications, Public Relations
<b>Description:</b>	<ul style="list-style-type: none"> <li>• Assist with development and implementation of organization metrics</li> <li>• Analyze administrative and programmatic matters and topics, and provide guidance to Tank Farms management on priorities, policy and procedures</li> <li>• Support Tank Farm Project document reviews as well as planning and staffing for project tours and visits</li> <li>• Assist with preparation of documents, reports and maintain records and files</li> <li>• Research and review routine project activities, evaluation reports, regulations, DOE orders and correspondence</li> <li>• Develop internal and external communication products such as employee announcements, newsletters and presentations</li> <li>• Plan and facilitate staff meetings</li> <li>• Update Share Point website with key oversight/project documents and information</li> <li>• Support other duties as assigned</li> </ul>	
<b>Company:</b> CHPRC	<b>Academic Standing:</b> Junior/Senior	<b>Desired Majors:</b> Fire Protection
<b>Description:</b>	Support fire protection program providing codes and standards consulting for projects, performance of facility walkdowns/assessments per CHPRC/Hanford requirements, and support of ongoing engineering design and construction for major projects, as assigned.	
<b>Company:</b> MSA	<b>Academic Standing:</b> Any	<b>Desired Majors:</b> Environmental Engineering
<b>Description:</b>	The Environmental Integration Services Tri-Party Agreement intern will compare hard copy Administrative Record documents to their electronic counterparts, to determine accuracy and completion of document scans over the last 30 years. The intern will produce an Excel file that reflects the accuracy rates over time. The intern also will support Tri-Party Agreement activities (e.g., meetings, reports, database updates) as requested by Environmental Integration Services staff.	

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<b>Company:</b> MSA	<b>Academic Standing:</b> Any	<b>Desired Majors:</b> Electrical Engineering
<b>Description:</b>	Support MSA Central Engineering/Electrical Utilities function with process improvements, development of technical information/reports, computer modelling of water systems, development and research of design requirements, development and checking of analyses and reports, participation in pre-jobs, work planning and scoping, job walk downs, observation of field work, and general and miscellaneous support to other engineers.	
<b>Company:</b> CHPRC	<b>Academic Standing:</b> Junior	<b>Desired Majors:</b> Chemical Engineering, Civil Engineering, Chemistry, Environmental Science
<b>Description:</b>	Groundwater data review, data evaluations, report writing, assisting with engineering and environmental project tasks ranging from creating spreadsheets, reviewing reports, GIS support, attending meetings, and supporting staff scientist with creating/preparing presentations.	
<b>Company:</b> CHPRC	<b>Academic Standing:</b> Junior/Senior/Graduate (BA/BS Degree)/Post Graduate	<b>Desired Majors:</b> Industrial Hygiene
<b>Description:</b>	Aid Industrial Hygiene staff in personnel/field sampling for confined space, Be, Lead, Asbestos and other chemical/contaminates. Aid in the research and performance of Industrial Hygiene Hazard Assessments, EJTA review.	
<b>Company:</b> CHPRC	<b>Academic Standing:</b> Sophomore/Junior/Senior/Graduate	<b>Desired Majors:</b> Chemical Engineering, Environmental Engineering, Civil Engineering, Chemistry, Environmental Science, BioChemistry, Biology
<b>Description:</b>	The selected intern will be assigned tasks to develop tools for the Environmental Compliance Officers to use to enhance their ability to maintain compliance in their projects. Developing a tool to make sure all areas of CHPRC ownership have eyes put on them by an ECO each month. Developing a tool that consolidates information that an ECO needs on a project to allow the ECOs to be more flexible in covered different CHPRC projects. Developing other tools for ECOs as deemed appropriate.	
<b>Company:</b> DOE	<b>Academic Standing:</b> Sophomore	<b>Desired Majors:</b> Industrial Safety or Health Science; Mechanical Engineering; Chemical Engineering; Environmental Engineering
<b>Description:</b>	<ul style="list-style-type: none"> <li>• Assists staff developing/updating industrial safety or industrial health reports/plans.</li> <li>• Assists staff with written correspondence in the safety compliance areas.</li> <li>• Researches and helps review routine non-complex Compliance Evaluation reports, regulations, DOE orders and correspondence.</li> <li>• Assists staff who are responsible for the tracking of industrial safety and health programs.</li> <li>• Assists staff in evaluating new technologies relevant to health and safety.</li> <li>• Assists staff maintaining the program/project management data bases and reporting systems</li> <li>• Utilizes computers to prepare routine documents and reports and maintaining records/files.</li> </ul>	

## ANR Group Inc – Internship Opportunities

<b>Company:</b> MSA	<b>Academic Standing:</b> Graduate (BA/BS Degree)/Post Graduate	<b>Desired Majors:</b> MBA, Accounting & Finance
<b>Description:</b>	Provide project controls support to the organization in support of the day to day budgeting, performance, actuals, variance analysis reporting, and spent forecasting. This includes scope associated with the Program Management Baseline (PMB), Usage Based Services (UBS), and Request for Services (RFS). Will work with Senior MSA Management, CAMS, and the Program Controls team	
<b>Company:</b> MSA	<b>Academic Standing:</b> Sophomore/Junior/Senior	<b>Desired Majors:</b> Journalism
<b>Description:</b>	<ul style="list-style-type: none"> <li>• Learn how to market the programs of the Public Safety and Resource Protection (PSRP) department.</li> <li>• Writing and editing articles, fliers, and information sheets</li> <li>• Assistance in compiling measurement data for source reduction and environmental outcomes</li> <li>• Contribute to the development of marketing materials (i.e., graphic design, layout) in conjunction with PSRP’s Director and staff</li> <li>• Explore creative ways to increase PSRP’s visibility through visual marketing tools</li> <li>• Data entry and other administrative duties as needed.</li> <li>• Qualifications: interest in environmental and energy issues, graphic design and layout skills a plus, strong writing and research skills.</li> </ul>	
<b>Company:</b> MSA	<b>Academic Standing:</b> Senior	<b>Desired Majors:</b> Legal
<b>Description:</b>	Provide direct support to in-house counsel, paralegal, administrative staff, and outside counsel in a variety of capacities. Support duties include, but are not limited to: <ul style="list-style-type: none"> <li>• Legal research and writing</li> <li>• Review and analysis of company policies and procedures</li> <li>• Gathering documents responsive to requests for information</li> <li>• Updating and maintaining certain internal legal tracking documents and systems</li> </ul>	
<b>Company:</b> DOE-RL	<b>Academic Standing:</b> Sophomore/Junior/Senior	<b>Desired Majors:</b> Civil/Structural Engineering, Mechanical Engineering, Urban Planning
<b>Description:</b>	The intern will be assigned to the ISD Program technical staff. The work activities would be program oversight to include scope, schedule, and cost alignment (i.e. contract compliance). The intern would be involved with infrastructure activities such as roads and water/sewer and other duties to get hands on experience. Review and monitor performance, performance standards, and performance measurements. Evaluate available data sources to develop infrastructure delivery programs and trends to make recommendations. Participate on contract oversight assessments.	



**ANR Group Inc – Internship Opportunities**

<b>Company:</b> MSA	<b>Academic Standing:</b> Senior/Graduate (BA/BS)	<b>Desired Majors:</b> Environmental Science, History, Archaeology, Anthropology, Culture Resource Management, Library Science, Geographic Information Systems
<b>Description:</b>	<ul style="list-style-type: none"> <li>• Assist with CRRP fieldwork (e.g. survey, site testing, site evaluation, data recovery, cultural resource monitoring) as required.</li> <li>• Digitize project and site archives.</li> <li>• Organize digital files.</li> <li>• Assist with collections acquisitions, accessions, inventories, assessments, organization, cataloging, tagging, tracking, safeguarding from deterioration, etc. as directed.</li> <li>• Assist with other Public Safety and Resource Protection Program tasks as needed.</li> <li>• Participate in and foster a work environment that is based upon openness, trust, communication, teamwork, empowerment, innovation, and satisfaction.</li> <li>• Conduct work in a manner that ensures protection for employees, the public, and the environment.</li> <li>• Integrate working safely into work practices at all levels, addressing all types of potential hazards.</li> <li>• The intern will work under immediate supervision of program mentors and receive general instructions on sequencing and planning of work for routine, repetitive chores where work is controlled by procedures. Instructions for unusual assignments are given on a task basis. Routine work is spot-checked and other work is inspected by a supervisor. Any specialized training tasks are performed under close supervision and guidance.</li> </ul>	
<b>Company:</b> MSA	<b>Academic Standing:</b> Freshman/Sophomore	<b>Desired Majors:</b> Safety Engineering
<b>Description:</b>	<ul style="list-style-type: none"> <li>• Service support to the Safety and Health Group of Emergency Services and Training.</li> <li>• Provide direct field support to the implementation of the Heat Stress Control programs at MSA, including Hanford Fire Department and the Hanford Patrol.</li> <li>• Will receive training and be responsible for implementation of MSA Thermal stress program visa equipment operation (WBGT), recordkeeping and documentation.</li> <li>• Will communicate thermal stress TLVs to project IH and Line Supervisors for implementation.</li> </ul>	