

# Position Description (PD) for Yucca Mountain Lead Lab Activities

SAND2007-1258P

Position Description Number	YM123	
Creation Date of PD	Feb 22, 2007	
Job Title	<b>Department Manager, Organizational Assurance &amp; Business Operations</b>	
SNL Dept Name	Organizational Assurance & Business Operations	
SNL Org Number (or TBD)		
Number of Openings	1	
Description of Position	Responsible for all activities of the department to include objectives, plans, and budget. Select, place, develop, and organize department staff, evaluate performance, manage all administrative processes in the department, and manage the integration of departmental activities with those of the OCRWM YMP to ensure mission success. This includes job functions in the areas of WP Manager, Department Head, or Deputy Department Head. Ensure sufficient support of administrative functionality to all areas of Lead Lab.	
Required Skills & Experience	Understanding of SNL policies regarding business operations. Working knowledge of Sandia Finance, Human Resources, Security, ES&H, Procurement, and Project Controls operations.	
Desired Skills & Experience (if applicable)		
Required Education (Degrees & Levels)	(1) A Ph.D. degree in a business-related discipline and 2 years experience; or (2) a Master's degree in a business-related discipline and 5 years of relevant experience.	
Desired Education (Degrees & Levels - if applicable)		
Full Time Position? (Y/N)	Y	
Job Requires lifting 35+ Pounds (Y/N)	N	
Desired Start Date	10/20/06	
Can this position accommodate...		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)
N	N	N

Please Select All Related WBS Elements for this PD  
(required for distributing PDs to contract providers for sourcing)

WBS Elements of 1.5.01	Name	
1.5.01.01	Project Management	X
1.5.01.02	Project Controls and Earned Value Management	X
1.5.01.04	Safeguards and Security	X
1.5.01.07	Environmental, Safety and Health	X
1.5.01.08	National Environmental Policy Act	X
1.5.01.09	General Project Services	X
1.5.01.10	Procurement	X
1.5.01.12	Financial Assistance and Other Contracts	X
1.5.01.13	Communications/Intergovernmental Relations	X

## Position Description (PD) for Yucca Mountain Lead Lab Activities

Position Description Number	YM124
Creation Date of PD	02/22/2007
Job Title	<b>Manager</b>
SNL Dept Name	Performance Confirmation and Experimental Strategy
SNL Org Number	

(or TBD)		
Number of Openings	1	
Description of Position	<p>For the Lead Laboratory this person will manage scope, staff, budget, strategy and deliverables covering the areas below:</p> <ol style="list-style-type: none"> <li>1. A performance confirmation program.</li> <li>2. Requirements of 10CFR63 Subpart F and NUREG 1804.</li> <li>3. Technical and regulatory adequacy of post closure safety assessment assumptions and expectations.</li> <li>4. Chapter 4 of the SAR.</li> <li>5. Planning and prioritizing performance confirmation activities.</li> <li>6. Revisions to the performance confirmation plan consistent with a reasonable expectation PA.</li> <li>7. Developing performance confirmation test plans that test assumption in the license application.</li> <li>8. Transition from site characterization testing to performance confirmation testing.</li> <li>9. Developing a testing and monitoring strategy that integrates PC with other testing responsibilities.</li> <li>10. Coordinating an outreach program for liaison with other project participants.</li> <li>11. Provide elements of license defense for identified vulnerabilities.</li> <li>12. Provide document production and control.</li> <li>13. Track information flow, review and communication.</li> <li>14. Allocation, monitoring and adjustment of staff and other technical resources necessary to execute the work scope.</li> <li>15. Support technical integration responsibilities of technical and team leads within the science group.</li> </ol>	
Required Skills & Experience	A minimum of five years of experience in repository sciences	
Desired Skills & Experience (if applicable)		
Required Education (Degrees & Levels)	Advanced degree in engineering and/or sciences	
Desired Education (Degrees & Levels - if applicable)	PhD in engineering or geosciences	
Full Time Position? (Y/N)	Y	
Job Requires lifting 35+ Pounds (Y/N)	N	
Desired Start Date		
Can this position accommodate...		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)

Please Select All Related WBS Elements for this PD  
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WBS Elements of 1.5.03		X
1.5.03.12	Performance Confirmation Tests-Post Closure S	X

## Position Description (PD) for Yucca Mountain Lead Lab Activities

Position Description Number	YM127
Creation Date of PD	2/23/2007
Job Title	<b>Lead Laboratory Chief Scientist</b>
SNL Dept Name	Chief Scientist's Office
SNL Org Number (or TBD)	
Number of Openings	1

Description of Position	<p>Primary functions are:</p> <ul style="list-style-type: none"> <li>• Advise Lead Lab project management and the OCRWM Office of Chief Scientist regarding adequacy and completeness of technical work performed by the lab, by other groups for which the lab is accountable, and by other organizations working outside the scope of the lead lab.</li> <li>• Advise Lead Lab project management and the OCRWM Office of Chief Scientist regarding programmatic strategic decisions that depend all or in part on technical input.</li> <li>• Assist project management in the integration of technical work from multiple disciplines</li> <li>• Provide final Lead Lab review and approval of project technical work plans, reports, external presentations, and external publications</li> <li>• Work with the other technical organizations to represent the lead lab in technical interactions with counterparts at the DOE and the M&amp;O, as appropriate</li> <li>• Work with the other technical organizations to represent project technical positions to internal and external audiences, as appropriate, including the Nuclear Regulatory Commission and the Nuclear Waste Technical Review Board</li> <li>• Work with the other technical organizations to ensure appropriate representation of the project's technical program in the national and international peer community</li> <li>• Identify and engage an advisory group of consultants with internationally recognized expertise in the main disciplines of postclosure science. Experts should be drawn from both within the project, including at SNL and other national laboratories and contracting companies, and also from external independent sources such as universities. This group shall be available to review technical issues as necessary, and shall provide advice to the lead laboratory through the chief scientist.</li> <li>• Overall, the chief scientist shall work to ensure that technical work performed by and for the lead laboratory is sound, credible, and meets the highest standards of scientific integrity.</li> </ul>	
Required Skills & Experience	<ul style="list-style-type: none"> <li>• Extensive knowledge of YMP post-closure programs</li> <li>• Excellent oral and written communication skills</li> <li>• Extraordinary breadth of technical skills relevant to repository science</li> <li>• Familiarity with technical and regulatory basis for repository postclosure science programs</li> <li>• Experience interacting with senior management and senior scientists within the external peer community</li> </ul>	
Desired Skills & Experience (if applicable)		
Required Education (Degrees & Levels)	An advanced degree in physical sciences or engineering is required	
Desired Education (Degrees & Levels - if applicable)		
Full Time Position? (Y/N)	Y	
Job Requires lifting 35+ Pounds (Y/N)	N	
Desired Start Date	10/01/06	
Can this position accommodate...		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)
N	N	Y

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WBS Elements of 1.5.02		X
1.5.02.06	License Defense	X
WBS Elements of 1.5.03		X
1.5.03.01	Safety Analyses Integration-Post Closure Safe	X
1.5.03.02	Total System Performance Assessment - Post Closure Safety	X