

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

SAND2007-4904P

Position Description Number	YM173	
Creation Date of PD	7-2-2007	
Job Title	<b>Critical Technical Reviewer for Model Validation – Disruptive Events</b>	
SNL Dept Name	Performance Assessment – Disruptive Events Group	
SNL Org Number (or TBD)	TBD	
Number of Openings	3	
Description of Position	<p><b>Critical Technical Reviewer – Igneous Activities</b></p> <p>Critical technical reviewers are needed for post-development validation of igneous intrusion and eruption models needed to support performance assessment post-closure science activities being directed by the Sandia YMP Lead Lab. Types of models to be reviewed potentially include: dike propagation with compressible magma, multi-phase magma flow, and redistribution of tephra ash through geomorphic processes, among others. The position requires in-depth knowledge of geologic processes and, in particular, volcanic processes; and how they may potential impact a geologic radioactive waste repository. The successful candidate(s) will be working with a team of volcanologists, geologists, and modelers and both published and project technical documents and will provide judgment on whether the models are: 1) reasonable and appropriate for intended use; 2) mathematically appropriate; 3) limited to specific applications and should be supplemented or enhanced through use of alternative models, 4) producing reasonable and representative outputs and 5) supported through adequate model validation. The reviewer(s) must be truly independent of the models to be reviewed and cannot have contributed either directly or indirectly to the model development effort. Travel to project meetings and field sites may be required. The position requires at least 5 years of experience and an advanced degree, preferably at the PhD level in geology, geophysics or geomorphology.</p>	
Required Skills & Experience	Candidates for this position must have 5 years of experience and an advanced degree in geology, geophysics or geomorphology with demonstrated experience in computational modeling of fracture propagation, multi-phase dynamic magma flow or redistribution of tephra ash through geomorphic processes. Candidates must be completely independent of work to be reviewed and must have strong technical capabilities as demonstrated by appropriate peer-reviewed publications.	
Desired Skills & Experience (if applicable)	NA	
Required Education (Degrees & Levels)	MA/MS in Geology, Geophysics, or Geomorphology	
Desired Education (Degrees & Levels - if applicable)	PhD in Geology, Geophysics, or Geomorphology	
Full Time Position? (Y/N)	No – maximum of 200 hrs total for review of any individual model	
Job Requires lifting 35+ Pounds (Y/N)	No	
Desired Start Date	7-2-2007	
Can this position accommodate...		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)
Yes	No	No

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

WBS Elements of 1.5.03		X
1.5.03.08	Disruptive Events - Post Closure Safety	X

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

Position Description Number	YM174
Creation Date of PD	7/26/07
Job Title	<b>License Defense Support Consultant</b>
SNL Dept Name	Licensing Department
SNL Org Number (or TBD)	6783
Number of Openings	1

Description of Position	This individual will assist the License Defense Group in identifying and mitigating licensing vulnerabilities in current and future technical products supporting the YMP, with a focus on the reliability and defensibility of these technical products and the risks these vulnerabilities may create for negative impacts on the licensing process. Specific duties and responsibilities may include, but are not limited to: (1) development of processes for the management of information in the vulnerability assessment database; (2) supporting vulnerability assessment regulatory reviews; (3) providing research and advice pertaining to the admissibility of scientific and technical evidence during licensing proceedings; and (4) assist Lead Laboratory technical staff with the interpretation of regulatory requirements. Although one of the requirements for this position is a law degree, this individual will not act as an attorney for, or on behalf of, the Lead Laboratory, the DOE, or the Yucca Mountain Project in any respect and will not enter into an attorney-client relationship.	
Required Skills & Experience	Knowledge of the NRC licensing process and associated regulations and guidance; excellent written and oral communications skills; experience in risk assessment and associated technical disciplines; excellent legal research skills; experience in the area of reliability and admissibility of scientific and technical evidence in legal proceedings.	
Desired Skills & Experience (if applicable)		
Required Education (Degrees & Levels)	Juris Doctorate (Law) and advanced degree in science or engineering	
Desired Education (Degrees & Levels - if applicable)		
Full Time Position? (Y/N)	<input checked="" type="checkbox"/> N	
Job Requires lifting 35+ Pounds (Y/N)	<input checked="" type="checkbox"/> N	
Desired Start Date	7/1/07	
Can this position accommodate...		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)
<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N

Please Select All Related WBS Elements for this PD  
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WBS Elements of 1.5.02		<input checked="" type="checkbox"/> X
1.5.02.06	License Defense	<input checked="" type="checkbox"/> X

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

Position DescriptionNumber	YM175
Creation Date of PD	7/27/07
Job Title	<b>Risk Communication Consultant</b>
SNL Dept Name	Licensing Department
SNL Org Number (or TBD)	6783
Number of Openings	1
Description of Position	This individual will assist the Licensing Department in conceptualizing and communicating the risks associated with the construction and operation of the Yucca Mountain repository to the NRC licensing board, the project stakeholders, and the general public. The Risk Communication Consultant will help facilitate the transition of the YMP from a scientific to a licensee culture. Specific duties and responsibilities may include, but are not limited to: (1) reviewing the Lead Laboratory sections of the SAR with a focus on how the information can best be presented to support a favorable licensing outcome; (2) assisting in the conceptualization and preparation of the Postclosure Safety Case as a means of successfully communicating the overall safety of the repository to multiple audiences; (3) providing training for Lead Laboratory staff on proper risk communication concepts; and (4) assisting the License Defense Group with determining the potential impacts of vulnerabilities and how to communicate those vulnerabilities that cannot be completely resolved in such a way as to minimize their negative impacts.
Required Skills & Experience	Knowledge of the NRC licensing process and associated regulations and guidance; excellent written and oral communications skills; experience in risk perception and related public policy considerations affecting nuclear issues; formal experience in the teaching of risk communication concepts, preferably as a university faculty member.

Desired Skills & Experience (if applicable)		
Required Education (Degrees & Levels)	Doctorate in social sciences	
Desired Education (Degrees & Levels - if applicable)		
Full Time Position? (Y/N)	N	
Job Requires lifting 35+ Pounds (Y/N)	N	
Desired Start Date	7/1/07	
Can this position accommodate...		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)
Y	Y	N

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WBS Elements of 1.5.02		X
1.5.02.02	License Application	X
1.5.02.06	License Defense	X

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

Position Description Number	YM176	
Creation Date of PD		
Job Title	Information Systems Analyst/Engineer	
SNL Dept Name	Licensing Department	
SNL Org Number (or TBD)	06853	
Number of Openings	1	
Description of Position	Design TE Systems and activities including: Lead Business Analyst / Designer for YMP TE solutions that drive shared project vision/scope, understand operational, tactical and strategic needs of the organization, Leverage organization needs in requirements definitions of integrated services, Manage all customer requirement definitions, Develop and maintain business cases, Manages customer business design expectations, and Design Logical User Interface.	
Required Skills & Experience	5 years of programming experience	
Desired Skills & Experience (if applicable)		
Required Education (Degrees & Levels)	Bachelor of Engineering	
Desired Education (Degrees & Levels - if applicable)		
Full Time Position? (Y/N)	Y	
Job Requires lifting 35+ Pounds (Y/N)	N	
Desired Start Date	immediately	
Can this position accommodate...		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)
N	N	N

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WBS Elements of 1.5.02		
1.5.02.02	License Application	x

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

Position Description Number	YM177	
Creation Date of PD		
Job Title	<b>Network Manager</b>	
SNL Dept Name	Licensing Department	
SNL Org Number (or TBD)	06853	
Number of Openings	1	
Description of Position	Manages hardware and networks including: provides technical support for all TE effort, identifies software, hardware and maintenance requirements, implements technical process improvements, initiates and verifies system users and accreditation.	
Required Skills & Experience	3 years tech support experience, 1 year imaging experience, advanced knowledge of Adobe products, advanced knowledge of Network configurations	
Desired Skills & Experience (if applicable)		
Required Education (Degrees & Levels)		
Desired Education (Degrees & Levels - if applicable)		
Full Time Position? (Y/N)	N	
Job Requires lifting 35+ Pounds (Y/N)	N	
Desired Start Date	immediately	
Can this position accommodate...		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)
Y	N	N

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WBS Elements of 1.5.02		
1.5.02.02	License Application	x

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

Position Description Number	YM178
Creation Date of PD	
Job Title	<b>Production Manager</b>
SNL Dept Name	Licensing Department
SNL Org Number (or TBD)	06853
Number of Openings	1

Description of Position	Manage all TE Production activities including: coordinate activates between TE and other YMP Tech groups, manage all delivery schedules, conduct project reviews, manage budget, monitor TE Quality Assurance requirements, verify all YMP specific training is completed, provide training to client, and interact with client to ensure satisfaction with product.	
Required Skills & Experience	5 years of imaging experience, 3 years of Team Supervisor experience, Advanced knowledge of Adobe products, MS Windows	
Desired Skills & Experience (if applicable)		
Required Education (Degrees & Levels)		
Desired Education (Degrees & Levels - if applicable)	Basic Management training	
Full Time Position? (Y/N)	Y	
Job Requires lifting 35+ Pounds (Y/N)	N	
Desired Start Date	immediately	
Can this position accommodate...		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)
N	N	N

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WBS Elements of 1.5.02		
1.5.02.02	License Application	X

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

Position Description Number	YM179
Creation Date of PD	
Job Title	Project Manager
SNL Dept Name	Licensing Department
SNL Org Number (or TBD)	06853
Number of Openings	1
Description of Position	Manage all TE Project activities including: Drives development process to finish project on time, Manages solution specification, Facilitates communication and negotiation within the team, Maintains the project schedule and reports project status, Drives implementation of critical trade-off decisions, Develops, maintains and executes the project master plan and schedule, Drives and manages risk assessment and risk management, Drives features vs. schedule vs. resources tradeoff.
Required Skills & Experience	5 years of Project Management
Desired Skills & Experience (if applicable)	
Required Education	Bachelor's degree

(Degrees & Levels)			
Desired Education (Degrees & Levels - if applicable)			
Full Time Position? (Y/N)	Y		
Job Requires lifting 35+ Pounds (Y/N)	N		
Desired Start Date	immediately		
Can this position accommodate...			
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)	
N	N	N	

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WBS Elements of 1.5.02		
1.5.02.02	License Application	X

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

Position Description Number	YM180	
Creation Date of PD		
Job Title	Technological Enhancement Processor	
SNL Dept Name	Licensing Department	
SNL Org Number (or TBD)	06853	
Number of Openings	Unknown	
Description of Position	Complete all required Technological Enhancements (TE) including: Download PDF files identified for TE, complete all required TE and verify quality, Basic TE – aggregate multiple PDF files into one electronic document, rotate pages, deskew pages, optimize for enhanced OCR results, Advanced TE – create bookmarks, annotations, voice transcription of cursive text, audio annotations, enter and verify required meta data fields.	
Required Skills & Experience	5 years basic computer experience, 5 years MS Windows experience, 2 years Adobe Acrobat experience	
Desired Skills & Experience (if applicable)		
Required Education (Degrees & Levels)		
Desired Education (Degrees & Levels - if applicable)		
Full Time Position? (Y/N)	Y	
Job Requires lifting 35+ Pounds (Y/N)	N	
Desired Start Date	Immediately	
Can this position accommodate...		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)
N	N	N

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WBS Elements of 1.5.02		
1.5.02.02	License Application	X

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

Position Description Number	YM181	
Creation Date of PD		
Job Title	<b>Technological Enhancement Project Team Supervisor</b>	
SNL Dept Name	Licensing Department	
SNL Org Number (or TBD)	06853	
Number of Openings	1	
Description of Position	Supervise all Data Tech activities including: coordinate production schedules, conduct production training, communicate technical issues, test and approve all custom program applications prior to release into production, identify process improvements, ensure all required TE are completed, ensure quality of delivered documents, verify TE Quality Assurance requirements are followed, ensure all processes are known and communicated to KC team.	
Required Skills & Experience	5 years of imaging experience, 3 years of Team Leader experience, Advanced knowledge of Adobe products, MS Windows, basic hardware knowledge	
Desired Skills & Experience (if applicable)		
Required Education (Degrees & Levels)		
Desired Education (Degrees & Levels - if applicable)	Basic Supervisor training	
Full Time Position? (Y/N)	Y	
Job Requires lifting 35+ Pounds (Y/N)	N	
Desired Start Date	immediately	
Can this position accommodate...		
Part Time Employees? (Y/N)	Telecommuting? (Y/N)	Foreign Nationals? (Y/N)
N	N	N

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WBS Elements of 1.5.02		
1.5.02.02	License Application	X