

Shannon Lowrene Reed

Availability:

Job Type: Permanent

Work Schedule: Full-Time

Desired locations:

United States

Work Experience:

Forest Service

333 Broadway

Albuquerque, NM 87102 United States

01/2017 - 10/2018

Hours per week: 40

Series: 1301 **Pay Plan:** GS **Grade:** 12

Regional Air Quality Specialist (This is a federal job)

Duties, Accomplishments and Related Skills:

- Coordinated between federal land managers, forest service employees, contractors, and state personnel to manage air quality sites, complete PSD determinations, and NEPA documents.
- Coordinated between regional staff to set up an agreement and a MOU with partners and other agencies.
- Created a Strategic Plan that identified internal and external program issues affecting the organization and the roles and responsibilities for the region and the state liaisons.
- Created a letter explaining the importance of the IMPROVE network.
- Ran dispersion models to predict smoke impacts of prescribed fires and wildfires and served as an Air Resource Advisor (ARA).

Supervisor: Francis "Jack" Triepke (505-842-3146)

Okay to contact this Supervisor: Yes

Forest Service

2946 Chestnut Street

Montgomery, AL 36107-3010 United States

02/2015 - 01/2017

Hours per week: 40

Series: 1301 **Pay Plan:** GS **Grade:** 12

Zone Air Quality Specialist (This is a federal job)

Duties, Accomplishments and Related Skills:

- Served as a specialist in the process of identifying, inventorying, and monitoring AQRVs and AQVs.
- Conducted reviews of PSD applications for major emitting facilities to affirmatively protect the AQRVs, including visibility, of Class I and the AQVs of Class II Forest Service areas.
- Engaged with forest and district level fire personnel on smoke management issues related to prescribed fires or wildfire suppression operations.
- Developed and conducted smoke monitoring plans and protocols in cooperation with forest and district personnel.
- Ran dispersion models to predict smoke impacts of prescribed fires and wildfires and served as an Air Resource Advisor (ARA).
- Trained forest and district personnel on appropriate use of smoke models (including Ready and PC HYSPLIT) and their outputs and limitations.

Supervisor: Anthony "Jay" Edwards (334-241-8159)

Okay to contact this Supervisor: Yes

National Park Service

PO Box 129, Grand Canyon

Grand Canyon, AZ 86023 United States

01/2010 - 02/2015

Hours per week: 40

Series: 1301 **Pay Plan:** GS **Grade:** 09

Air Quality Specialist (This is a federal job)

Duties, Accomplishments and Related Skills:

- Served as the air quality expert for the Grand Canyon National Park.
- Ran HYSPLIT and other air quality models to determine smoke impacts to the Class I and surrounding areas.
- Utilized HYSPLIT and other dispersion models to approved permits for air quality and meteorological projects performed in the park.
- Reviewed and commented on Uranium Mining EIS, Navajo Generation Station, Helicopter EIS, Haze SIP, EAs, air permits, and FIRE Burn Plans.
- Attended tribal, federal, state, and local public meetings, stakeholder meeting, and press releases.
- Maintained five (5) air quality sites in the park. Instruments included: IMPROVE, nephelometer, transmissometer, web camera, a public display, ozone (O3) monitor, CastNet, NADP, UVB sensors, solar sensors, seismograph, and various meteorological equipment.

- Performed weekly, monthly, and annual audits at all sites.
- Shutdown and removed two (2) air quality sites.
- Performed public outreach through presentations, classes, and all-day tours.

Supervisor: Jane Rodgers (202-208-6843)

Okay to contact this Supervisor: Yes

University of Arizona

Department of Atmospheric Sciences
Institute of Atmospheric Physics
Tucson, AZ 85721 United States

01/2009 - 08/2009

Salary: 25.00 USD Per Hour

Hours per week: 20

Research Specialist

Duties, Accomplishments and Related Skills:

- Calibrated instruments and prepared filters for the field and for analysis.
- Maintained particulate matter and meteorological equipment at two Superfund sites.
- Communicated findings and interacted with faculty, staff, and graduate students during weekly planning meetings.

Supervisor: Dr. Eric Betterton (520-621-6831)

Okay to contact this Supervisor: Yes

Texas Commission on Environmental Quality

P.O. Box 13087
Austin, TX 78711-3087 United States

01/2007 - 01/2009

Salary: 3,296.00 USD Per Month

Hours per week: 40

Engineering Specialist, Remediation, State Lead

Duties, Accomplishments and Related Skills:

- Planned, scheduled, coordinated, performed, and managed the review and preparation of plans and reports concerning contaminated media for compliance with appropriate laws and state rules including site assessment, risk assessment, corrective action, and site closure for Petroleum Storage Tanks (PSTs), Drycleaners, and Superfund sites.
- Communicated and interacted with management, staff, contractors, stakeholders, federal, state, and local agencies, regulated community, and the public via phone, e-mail, written correspondence, and meetings.
- Performed queries for reports, updated internal and external websites, and conducted database management.
- Prepared and submitted data to the U.S. Environmental Protection Agency's (EPA) STAR Report.
- Provided technical guidance to the agency staff and the public.

Supervisor: Donald Boothby (512-239-1000)

Okay to contact this Supervisor: Yes

Texas Commission on Environmental Quality

P.O. Box 13087
Austin, TX 78711-3087 United States

09/2005 - 12/2006

Salary: 3,213.00 USD Per Month

Hours per week: 40

Engineering Specialist, Monitoring Ops, Quality Assurance

Duties, Accomplishments and Related Skills:

- Coordinated with state and local agencies to conduct quality assurance audits at air monitoring stations.
- Calibrated and certified field calibrators, span gases, and flow transfer standards for ambient air monitoring networks.
- Gathered, organized, and analyzed Laboratory Control Checks (LCCs).
- Represented the Quality Assurance Team at the Monitoring Network Committee meetings.
- Prepared correspondence, network procedures, reports, performance plans, project plans, and other documents.
- Prepared and submitted audit data to the EPA's database.
- Communicated findings and provided technical guidance to management, agency staff, and the public.

Supervisor: Anne Panko (512-239-1000)

Okay to contact this Supervisor: Yes

Texas Commission on Environmental Quality

P.O. Box 13087
Austin, TX 78711-3087 United States

10/2004 - 08/2005

Salary: 3,151.00 USD Per Month

Hours per week: 40

Engineering Specialist, Monitoring Ops, Data Management**Duties, Accomplishments and Related Skills:**

- Gathered, processed, verified, analyzed, and reported AutoGC data to submit to the EPA and agency databases.
- Assessed data validity, identified data quality problems, and updated standard operating procedures.
- Reviewed and coordinated air and water quality data from monitoring sites to determine data validity.
- Utilized geographic information system (GIS) tools to develop maps, prepare metadata, and verify data locations.
- Represented the Data Management Team at the GIS Subcommittee meetings.
- Summarized air quality data to answer internal and external questions pertaining to air quality and air pollution issues.

Supervisor: Amir Poursamadi (512-239-1000)

Okay to contact this Supervisor: Yes

Texas Commission on Environmental Quality

P.O. Box 13087

Austin, TX 78711-3087 United States

11/2003 - 09/2004

Salary: 2,789.00 USD Per Month

Hours per week: 40

Program Specialist, Remediation, Site Assessment and Management**Duties, Accomplishments and Related Skills:**

- Represented the Remediation Division in the Dry Cleaner Rulemaking Team to develop the rules for HB1366.
- Maintained Dry Cleaner Registration Database for Facilities and Drop Stations.
- Worked with staff to design and create a database to track data collected through the Ranking Application process.
- Created, updated, and maintained the Dry Cleaner Remediation Program (DCRP) internal and external web pages.
- Designed, reviewed, and updated the Ranking Application Packet and worked with staff on contracting efforts.
- Provided technical and administrative support for DCRP Advisory Committee meetings and stakeholder meetings.
- Answered internal and external questions via the DCRP Hotline (x1011), e-mail (DRYCLNRS), and listserv (dryclean).
- Served as the administrator of the dryclean listserv and the prime GIS contact.

Supervisor: Grace (Nell) Tyner (512-239-1000)

Okay to contact this Supervisor: Yes

Texas Commission on Environmental Quality

P.O. Box 13087

Austin, TX 78711-3087 United States

03/1999 - 10/2002

Salary: 3,256.00 USD Per Month

Hours per week: 40

Engineering Specialist, Technical Analysis, Technical Support**Duties, Accomplishments and Related Skills:**

- Collected, organized, and analyzed meteorological data and emissions data to select episodes in non-attainment areas.
- Conducted and evaluated meteorological and photochemical models in support of the State Implementation Plans (SIPs).
- Planned, scheduled, coordinated, and conducted analyses of modeled and ambient data to answer internal and external questions pertaining to levels of air pollution in non-attainment areas.
- Utilized HYSPLIT to create back-trajectories to answer questions pertaining to source apportionment.
- Utilized ARCVIEW and ARCINFO to create maps, prepare metadata, and verify data.
- Mentored interns and trained senior staff to perform meteorological modeling.
- Participated in the TexAQS Study by selecting projects and managing several contracts and work orders.
- Represented the Air Modeling and Met Modeling Team on intra-agency work groups.
- Represented TCEQ at regional and national work groups, such as, Regional Planning Organization (RPO), Central Regional Air Planning Association (CENRAP) and Big Bend Regional Aerosol and Visibility Observational Study (BRAVO).
- Prepared written summaries, technical reports, studies, standard operating procedures, correspondence, and research projects.
- Communicated and interacted with management, staff, contractors, stakeholders, federal, state, and local agencies, regulated community, and the public via phone, e-mail, written correspondence, and meetings.
- Awarded Team of the Year in 2001.

Supervisor: Dave Harper (512-239-1000)

Okay to contact this Supervisor: Yes

Flood Zones, Inc.

14205 Burnet Road

Austin, TX 78728 United States

09/1998 - 02/1999

Salary: 1,517.00 USD Per Month

Hours per week: 40

Researcher**Duties, Accomplishments and Related Skills:**

- Utilized street maps, Federal Emergency Management Agency flood maps, and tax maps to determine areas in the United States that are prone to flooding.
- Used computer programs such as DeLorme and Lexis-Nexis to complete flood zone determinations.
- Awards: MVP Award for participating in a new testing process for new hires.

Supervisor: Deric Thames (512-464-8600)
Okay to contact this Supervisor: Yes

Texas A&M University Meteorology Department
3150 TAMU
College Station, TX 77843 United States

01/1996 - 05/1998

Salary: 455.00 USD Per Month

Hours per week: 20

Student Assistant

Duties, Accomplishments and Related Skills:

- Assisted in the publication of The 30th Anniversary Review of Texas A&M Meteorology Department.
- Researched and created a composite list of research conducted by Texas A&M Meteorology Department.
- Researched, compiled, and analyzed mean temperature and precipitation data. Calculated the percentage of monthly and yearly data collected for each station. Analyzed and verified data then exported data into SQL database.
- Trained two employees.

Supervisor: Prof. Griffiths (passed away) (979-845-7671)

Okay to contact this Supervisor: Yes

Texas A&M University Meteorology Department
3150 TAMU
College Station, TX 77843 United States

06/1997 - 08/1997

Salary: 1,040.00 USD Per Month

Hours per week: 40

Meteorological Technician

Duties, Accomplishments and Related Skills:

- Participated in the Texas A&M Convention and Lightning (TEXACAL) Project by deploying the National Severe Storm Laboratory (NSSL1) mobile unit to launch radiosondes (weather balloons) in order to collect data such as wind speed, wind direction, temperature and relative humidity of convective cells.
- Participated in daily forecast discussions with faculty and staff in order to receive updated weather conditions.
- Edited radar images including the May 27, 1997 Jarrell tornado.

Supervisor: Dr. Biggerstaff (979-845-7671)

Okay to contact this Supervisor: Yes

Education:

University of Maryland University College College Park, MD United States

Master's Degree 12/2012

GPA: 3.923 of a maximum 4

Credits Earned: 39 Semester hours

Major: Environmental Management

Relevant Coursework, Licenses and Certifications:

Nominated for the Presidential Management Fellow.

Texas A&M University College Station, TX United States
Bachelor's Degree 05/1998

Credits Earned: 82 Semester hours

Major: Meteorology

Tarrant County College Hurst, TX United States
Associate's Degree 12/1995

Credits Earned: 63 Semester hours

Major: Arts of Science

Job Related Training:

-FISSA

-EEO Training

-Diversity Training

-CPR and First Aid

-B3 Training
-OSHA Training
-GIS and GPS Certificate
-MM5, Mobile6, HYSPLIT, CAMx, and SMOKE Training
-NADP Training
-ARA Training
-COR Training

Affiliations:

American Meteorological Society (AMS) - Member
Grand Canyon Association - Member

Professional Publications:

- Co-authored the article, The Texas A&M University Convection and Lightning Experiment: TEXACAL-1997, published in the American Meteorological Society's 25th Conference on Radar Meteorology.
 - Co-authored the article, Development of a Conceptual Model for Episode Selection of High Eight-Hour Ozone Events in the Dallas / Fort Worth Area with C. Durrenberger, P. Breitenbach, J. Red, and D. Sullivan.
 - Co-authored the Big Bend Regional Aerosol and Visibility Observational Study (BRAVO) Report.
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Additional Information:

- Operating Systems: Windows, UNIX, LINUX.
- Office Equipment: Multi-line phones, fax machines, copy machines, printers, computers (including PC, Mac, PowerPC, Sun, AIX, and SGI), and optical scanners.
- Air Quality Equipment: Data acquisition systems (Zeno), gas analyzers (Dasibi 1008/5008, API, Thermo, Teledyne, VOC, FTIR, Mass Flow Meters), air quality instruments (Ozone (O3) monitor, CastNet, NADP), visibility (nephelometer, transmissometer), particulate matter instruments (IMPROVE, Moudi, SMPS, Hi-Vol, PUFF/PAH, TSP, TEOM, FEM, FRM, rootsmeter), meteorological and auditing equipment.
- Office Productivity Programs: Gmail, Bison, Lotus Notes, Microsoft Outlook, Microsoft Office, Microsoft Excel, Microsoft Word, Microsoft Publisher, Microsoft Power Point, Microsoft Access, ACT, Project 2000, GroupWise, Corel Quattro Pro, Corel Word Perfect, Corel Presentations, Corel Paradox, MacWrite, and MacWord.
- Graphic Applications: Adobe Acrobat, Adobe Photoshop, Xara3D, Ulead's PhotoImpact, Microsoft Image Composer, Netscape Composer, Uedit, HomePage, DreamWeaver, FrontPage, and CMS.
- Networking Tools: Internet, Intranets, ssh, rlogin, telnet, and FTP.
- Programming Languages: Pascal, HTML, ASP, Perl, Fortran 77, Fortran 90, C, C++, Visual Basic (VB), SAS, LINUX/UNIX, shell scripting (bash, korn, csh), and SQL (MySQL, SQLPlus, MS SQL Server).
- Other Advanced Programs: GIS/GPS, ARCVIEW, ARCINFO, ARCMAPS, HYSPLIT, Mesoscale Model (MM5), WRF, CalPuff, CAMx, SMOKE, Mobile6, and NCAR graphics.
- Government Applications: Concur, GovTrip, PMIS, PEPC, and QuickTime.