

OSMRE/AmeriCorps Position Descriptions

<i>Service Location</i>	<i>Project Description</i>	<i>Start Date</i>
Knoxville, TN	<p>Tennessee Reforestation Analysis</p> <p>This project will focus on developing a searchable GIS database of known FRA areas throughout Tennessee and increase knowledge on FRA techniques in the field. The AmeriCorps Member will be involved in analysis and mapping of reforestation sites to ensure accurate data collection. These data will be made available to the public through the searchable database. In addition, the Member will collaborate with partners by measuring seedlings planted on OSMRE-UT FRA research plots. This work will provide valuable information about reforestation of mine sites and success of FRA in the state, and be a base for future work in the region to improve OSMRE and state reclamation practices.</p>	August/September 2016
Knoxville, TN	<p>Curriculum Development for Water Education in STEM (1 of 2)</p> <p>The project will raise awareness for K-12 students on the environmental importance and significance of local streams, with a focus on the role reclamation plays in improving water quality and addressing AMD in legacy mining areas. After researching and identifying existing programs and models in Tennessee, the AmeriCorps Member will create a curriculum that will educate youth on the importance of clean water to maintaining and improving quality of life. Working in conjunction with the Environmental Training AmeriCorps Member, the Member will create and document a STEM program that will be rolled out with numerous state and local partners. Following the pilot in Tennessee, the curriculum developed will be shared across OSMRE offices to be utilized in outreach and education done by the Bureau.</p>	May 2016
Knoxville, TN	<p>Environmental Training for Water Education for STEM (2 of 2)</p> <p>The project will raise awareness for K-12 students on the environmental importance and significance of local streams, with a focus on the role reclamation plays in improving water quality and addressing AMD in legacy mining areas. Working in conjunction with the Curriculum Development AmeriCorps Member, the Member will develop the individual training courses to educate students for individual stream environmental training series. Each school will select a local stream to study through this STEM Program, making it imperative that individualized training is developed to address the nature of the identified stream. The Member will integrate current technologies, such as basic GIS skills and mobile apps, to provide hands-on skill development for the students. Following the pilot in Tennessee, the curriculum developed will be shared across OSMRE offices to be utilized in outreach and education done by the Bureau.</p>	May 2016

<i>Service Location</i>	<i>Project Description</i>	<i>Start Date</i>
Lexington, KY	<p>Northern Appalachia Mine Land Reforestation Analysis (1 of 2) The AmeriCorps Members will work with a multitude of partners to rebuild forests and wetlands in an effort to protect nature and conserve wildlife on abandoned and legacy mining areas. The Member will work side by side with experienced ARRI/GFW foresters from the beginning to the conclusion of multiple tree planting projects in northern Appalachia. Through this work the Member will educate students and community members about reforestation, highlighting the importance of OSMRE's reclamation projects. Furthermore, the Member will work with OSMRE staff and partners to determine the success of the FRA in reclaiming mine lands in the northern Appalachian states.</p>	August/September 2016
Lexington, KY	<p>Southern Appalachia Mine Land Reforestation Analysis (2 of 2) The AmeriCorps Members will work with a multitude of partners to rebuild forests and wetlands to protect nature and conserve wildlife on abandoned and legacy mining areas. The Member will work side by side with experienced ARRI/GFW foresters from the beginning to the conclusion of multiple tree planting projects in southern Appalachia. Through this work the Member will educate students and community members about reforestation, highlighting the importance of OSMRE's reclamation projects. Furthermore, the Member will work with OSMRE staff and partners to determine the success of the FRA in reclaiming mine lands in the southern Appalachian states.</p>	August/September 2016
Pittsburgh, PA	<p>Comprehensive Assessment of the MD eAMLIS Inventory The AmeriCorps Member will design and conduct a programmatic study of the AML process for analyzing and prioritizing dangerous abandoned mine land features, and then will accurately and completely include the resulting data into the national e-AMLIS database. The Member will use Maryland as a pilot, with the end result of developing a process and best practices that can eventually be applied across all OSMRE states. The Member will not only analyze the e-AMLIS data, but will participate in field observations including hydrological sampling, GIS verification, etc. – to ensure the accuracy of the e-AMLIS data entries and other information utilized by OSMRE, state personnel, stakeholders, and communities in the decision making process. The end product will be presented to state and OSMRE leadership, and made publically available to those who utilize the e-AMLIS database.</p>	August/September 2016

<i>Service Location</i>	<i>Project Description</i>	<i>Start Date</i>
Charleston, WV	<p>Assessing Watershed Health in Northern West Virginia Coal Mining Areas</p> <p>Assessing watershed health helps OSMRE use GIS and remote sensing data to investigate the potential impacts of mining practices in northern West Virginia. The AmeriCorps Member will gather water quality data from multiple sources and create GIS maps for comparison with known mining activities to determine the potential impact of mining on the watershed. This will identify mining areas within watersheds that may be contributing to the degradation of water quality. Working with the AmeriCorps Member working in southern West Virginia, the information will be compiled into reports that will be made publicly available to the surrounding community on the overall impact of mining practices on watershed health. The Member will also be involved in community outreach related to OSMRE's STEM initiatives.</p>	August/September 2016
Beckley, WV	<p>Assessing Watershed Health in Southern West Virginia Coal Mining Areas</p> <p>Assessing watershed health helps OSMRE use GIS and remote sensing data to investigate the potential impacts of mining practices in southern West Virginia. The AmeriCorps Member will gather water quality data from multiple sources and create GIS maps for comparison with known mining activities to determine the potential impact of mining on the watershed. This will identify mining areas within watersheds that may be contributing to the degradation of water quality. Working with the AmeriCorps Member working in northern West Virginia, the information will be compiled into reports that will be made publicly available to the surrounding community on the overall impact of mining practices on watershed health. The Member will also be involved in community outreach related to OSMRE's STEM initiatives.</p>	August/September 2016
Ashley, PA	<p>Education & Outreach Support for the Northern Anthracite PA Coalfield Communities</p> <p>The AmeriCorps Member will support training, community outreach, and education programming related to OSMRE reclamation interests. The work of the Member will address public health and safety concerns that surround abandoned mine lands and polluted waterways impacted by AMD. The AmeriCorps Member will coordinate regional volunteers of all ages to be engaged in education programs, field activities, cleanups, restoration and preservation projects, tree plantings, and advocate for reclamation work. The Member will utilize current technologies to address public health and safety concerns that surround abandoned mine lands and AMD impacted areas through the monitoring of AMD discharges and treatment locations, and increasing the awareness of problems and solutions associated with abandoned mine lands. The Member will work with the GIS and Mine Pool Mapping AmeriCorps Member on mine map digitization, database development, and training opportunities utilized by OSMRE for AMD and AML assessments.</p>	August/September 2016

<i>Service Location</i>	<i>Project Description</i>	<i>Start Date</i>
Ashley, PA	<p>GIS and Mine Pool Mapping Support for the Northern Anthracite PA Coalfield Communities</p> <p>The position will develop and coordinate regional training programs for AMD water quality monitoring, the use of GIS in watershed assessments of AMD impacted watersheds, and the use of 3D Software (ArcGIS, EarthVision and GlobalMapper) for the creation and development of mapping underground mine pools. Using this knowledge the AmeriCorps Member will help develop OSMRE TIPS training with highlighting these technologies for use in the field. Additionally, the Member will work on technical assistance and GIS mapping and digitization of historic mine maps. These maps will be accessible by the public and stakeholders to increase knowledge of underground mine areas and potential safety hazards in the region. Working with the Education and Outreach AmeriCorps Member, the Member will address public health and safety concerns that surround abandoned mine lands and AMD impacted areas through the development of GIS and Mine Mapping Education programs, the flow and chemistry monitoring of AMD discharges and treatment locations, and increasing the awareness of problems and solutions associated with abandoned mine lands.</p>	August/September 2016
Knoxville, TN	<p>Increasing Hydrologic Knowledge in Tennessee</p> <p>The AmeriCorps Member will develop, refine, and add to the current Tennessee cumulative hydrologic impact assessment (CHIA) trend stations and incorporating biological assessments performed in the state. The Member will develop a geo-referenced database of all known water quality and biological data with water quality and biological trend graphs for each station and/or stream in the Tennessee coalfield. The importance of this effort will be to assess the stream health by concentrating efforts and resources on streams/rivers with identified issues in the coal mined areas of Tennessee. The Member will work with the AmeriCorps Member working in Charleston, WV to learn best practices from the similar work being done in West Virginia. The results of this work will allow OSMRE to make better informed decisions regarding permitting decisions in the Tennessee coalfields.</p>	August/September 2016
Tulsa, OK	<p>Geospatial Technology and Mobile Computing Initiatives</p> <p>The AmeriCorps Member will collect and manage coal-mining related geospatial information for government and public uses; provide maps and other visual products related to mining activities and environmental features; test and make recommendations of geospatial data collection applications; use remote sensing data to produce maps that illustrate the effects of mining activities on the environment and local community; and provide support to the GeoMine project, a web-based viewer that supports decision-making processes associated with surface coal mining activities. The Member will provide oversight of the geospatial data for TX, KS, AR, and OK. This will be part of the GeoMine project, allow the public to benefit from these Geospatial data in the future.</p>	August/September 2016

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Alton, IL	<p>Supporting AML Projects that Enhance Economic Development The AmeriCorps Member will work with MCR AML specialists to identify current AML practices in the region. The Member will then network with state AML program managers and communities in MCR to identify and develop potential AML projects in coal fields that would qualify under the POWER+ Initiative. The Member will work with partners to develop project proposals with potential to enhance economic vitality of communities impacted by the downturn of the coal economy. This work will provide OSMRE with a case study for integrating POWER+ and RECLAIM Act initiatives into future AML work, and the information will be shared across regions to develop best-practices and case studies across OSMRE.</p>	August/September 2016
Denver, CO	<p>Increasing Environmental Impact Data for the Western Region Geospatial Database (1 of 2) The AmeriCorps Member will help build the foundation data for the Western Region Geodatabase, an ESRI Spatial Data Engine database that takes data such as permit information, land ownership, bond status, elevation models, etc. and stores it for analysis and display by OSMRE and the public. This information has incredible community impact, as it provides citizens with data regarding the current mining practices in the region. In developing these layers, the Member will work with the Revegetation AmeriCorps Member, as well as with external agencies, such as the Fish and Wildlife Service, to obtain data for threatened and endangered species analysis, as well as databases for Abandoned Mine Land analysis. These data will provide the community and OSMRE staff with a strong understanding of reclamation success in the region.</p>	August/September 2016
Denver, CO	<p>Increasing Revegetation Data for the Western Region Geospatial Database (2 of 2) The AmeriCorps Member will help build the foundation data for the Western Region Geodatabase, an ESRI Spatial Data Engine database that takes data such as permit information, land ownership, bond status, elevation models, etc. and stores it for analysis and display by OSMRE and the public. This information has incredible community impact, as it provides citizens with data regarding the current mining practices in the region. Additionally, the Member work with the Environmental Impact AmeriCorps Member to monitor the vegetation health on reclaimed mine lands. They will analyze the results of satellite imagery to identify areas of successful revegetation, and areas that need further improvement. These data will provide the community and OSMRE staff with a strong understanding of reclamation success in the region.</p>	August/September 2016

<i>Service Location</i>	<i>Project Description</i>	<i>Start Date</i>
Denver, CO	<p>Instructional Design Specialist</p> <p>The AmeriCorps Member will work with current OSMRE staff to improve the online course development of the TIPS program. Through working with subject matter experts, coordinating the Learning Management System, collaborating with staff, and ensuring accurate and up-to-date information about each training topic, the Member will allow OSMRE to increase its online training presence. By making these trainings accessible online, OSMRE will be able to more effectively and efficiently train stakeholders in mining communities. Furthermore, the Member will work with the NTTP AmeriCorps Member serving in Washington, DC to strengthen OSMRE’s training programs. Availability of this information will result in more informed communities and better understanding of the role OSMRE plays in the regulation and reclamation of mine lands.</p>	August/September 2016
Denver, CO	<p>Ensuring Accurate OSMRE Electronic Records</p> <p>The AmeriCorps Member will work directly with the OSMRE WR Electronic Records Management Specialist and other records management professionals in considering systems for managing electronic records, and provide recommendations based on their research and experience. The Member will work to gain a strong knowledge of federal lands policy and practice, and the records that result from those activities. Through research and interaction with subject matter experts, the Member will participate in the identification and evaluation of potential software for storing, and managing the electronic records; developing file structure for storing the scanned documents; and testing designed systems to ensure functionality. The Member will play a critical role in ensuring that the public is able to access OSMRE records and make informed decisions that impact their communities. The Member will engage with other OSMRE staff to ensure accurate records are kept across the OSMRE Regions and develop policies and instructions when necessary.</p>	August/September 2016
Washington, DC	<p>Stream Impact and Deforestation Analysis</p> <p>The AmeriCorps Member will assist in GIS and remote sensing research to identify, digitize, and analyze coal mining problems, deforestation, and revegetated areas. The Member will focus on Appalachian states with the potential to expand to Western states. Additionally, the Member will assist OSMRE staff in Environmental Impact Statements with supporting geospatial datasets. The Member will create maps and charts for various EIS, regulatory rules and committees.</p>	August/September 2016

<i>Service Location</i>	<i>Project Description</i>	<i>Start Date</i>
Washington, DC	<p>Engagement and Critical Support for the OSMRE/AmeriCorps Team The OSMRE/AmeriCorps Team has substantially grown in the past few years, requiring additional support and oversight to ensure success. The AmeriCorps Member will provide direct support to Members serving on the team to ensure that all positions realize their full potential across regional and field offices. The Member will support participants in the field through developing specialized trainings, ensure appropriate and accurate reporting, and conducting routine check-in calls with Members and Supervisors. Importantly, the Member will support and develop discipline-specific calls for Members and Supervisors to generate cross-regional integration and knowledge transfer. These calls will provide an opportunity for Members working on similar projects to share best practices and address any issues they might be facing. These discussions will lead to better cross-collaboration across OSMRE. Finally, the Member will ensure that all participants of the OSMRE/AmeriCorps Program are receiving appropriate mentorship and professional development.</p>	August/September 2016
Washington, DC	<p>Public Administration Fellow Supporting the OSMRE/VISTA Team The AmeriCorps Member will provide research and support for the OSMRE/VISTA and OSMRE/AmeriCorps Team. The Member will develop team promotion materials and assist the Engagement and Support AmeriCorps Member with support to OSMRE/AmeriCorps Members serving in OSMRE field and regional offices. Working with OSMRE staff, the Member will assist with the Semester Intern program at OSMRE Headquarters by assisting with task assignments, answering questions, and providing daily oversight on intern assignments. The Member will also work with OSMRE staff to promote larger youth engagement opportunities with OSMRE and act as an ambassador for OSMRE in engaging the next generation in federal work opportunities.</p>	August/September 2016

<i>Service Location</i>	<i>Project Description</i>	<i>Start Date</i>
Washington, DC	<p>Comprehensive eAMLIS Evaluation and Enhancements</p> <p>In this position the OSMRE/AmeriCorps Member will assume responsibility for editing various components of the eAMLIS database, a publically available resource. The Member will work along OSMRE staff in assisting with refinements and revisions to the database, containing \$14 billion in total reclamation costs and roughly 21,000 sites, as well as the geospatial components within eAMLIS. This position will provide valuable information crucial to the accuracy and validity of the location of hundreds of reclamation projects including but not limited to water problems and reclaiming dangerous mining features and processes. The work will result in the elimination of duplications and errors in the eAMLIS system in addition to corrections to the geospatial inventory. The work done by the Member will provide more informed and accurate information to communities and stakeholders. In doing so, AML funds and reclamation projects will be more effectively developed and carried out across the nation. The AmeriCorps Member will also work with the AmeriCorps Member serving in Pittsburgh, PA developing methods for improving eAMLIS data in Maryland. The transfer on knowledge between Members will ensure that data collected and imputed into the eAMLIS database is accurate and representative of current AML problems.</p>	May 2016
Washington, DC	<p>Improving OSMRE Training Capabilities for Stakeholders and Partners</p> <p>The AmeriCorps Member will work with NTTP staff to develop and address the training needs for OSMRE staff, State partners, Tribes, mining companies, and stakeholders. With the changing landscape of OSMRE and coal mining, courses provided by NTTP must be relevant and current. The Member will review and update current trainings to insure they address the most relevant needs in the current climate. Furthermore, the Member will have the opportunity to develop new trainings if their work identifies an area of need. Through this work the AmeriCorps Member will be able to help OSMRE, State partners, Tribes, and others address the needs of communities formerly and currently impacted by mining practices.</p>	May 2016

For more information about applying to any of the above OSMRE/AmeriCorps positions, please contact Sara Eckert at seckert@osmre.gov.