

## Job Posting – Environmental Data Scientist

**Job Title:** Environmental Data Scientist

**Reports to:** Executive Director

**Location:** McMurray, PA / Pittsburgh area

**Job Type:** Full-time, exempt

### Organization Description:

Southwest Pennsylvania Environmental Health Project (EHP) is a public health non-profit organization that provides wide-ranging support to communities impacted by shale gas and oil development. That support includes health impact assessments, environmental and health monitoring, data and research interpretation, public health guidance, and the Shale Health Effects Registry. EHP's team includes a varied and skilled group of health care providers, scientists, community educators, analysts, and communications experts. The strength of the organization lies, in part, in its direct contact with community members, learning about their circumstances and responding to their need for relevant information and guidance. The organization opened in 2012 and today is at an exciting juncture as we have expanded our focus beyond Southwest PA. We seek to support communities more broadly in understanding the exposures and risks generated by shale gas and oil development, and also to engage in policy dialogues at the local, state, and national levels regarding the public health implications of shale oil and gas activities. We have become national leaders in the comprehensive understanding of, and approach to, the public health consequences of shale development.

### Job Summary:

Data analysis is core to EHP's business operations. The organization analyzes health data and monitors air pollutants such as particulate matter and volatile organic compounds (VOCs) near industry sites, such as well pads and compressor stations. The role of the Environmental Data Scientist is to ensure sound and accurate analysis of these data and to translate the findings into easily-accessible summaries for consumption by a range of audiences, from community residents to legislators. Some community interaction and support may be expected in this role as residents are trained to use monitors themselves. The Environmental Data Scientist will also work to assess areas for ongoing expansion and improvement in existing analysis models, internal processes, and reporting capabilities.

Various tasks associated with this role include but are not limited to the following:

### Primary Duties

- Assess existing analysis procedures and programs; continue to improve upon the accuracy and usability of analysis tools and related reporting processes
- Work with data analysts across multiple sites to generate meaningful visualizations, reports, and other summaries of air and health data procured by or provided to EHP
- Perform or oversee organizational processes of air monitoring services for communities and individuals as needed, including training community representatives how to use monitoring equipment
- Interact with community and local organizations as needed to provide technical guidance about monitoring and reporting
- Work with external platforms and databases from partner organizations that track additional health and environmental data

#### Other Duties

- Field questions from participants about air, water, noise, and soil monitoring techniques
- Work with appropriate program manager to develop handouts on relevant work as needed
- Make updates to the Environmental Health Channel when needed
- Support occasional individual household instances of air monitoring
- Manage interns/fellows when appropriate

#### Core Attributes Required:

- Ability to thrive in a dynamic, deadline-oriented environment with demonstrated ability to balance multiple, competing demands and establish priorities
- Excellent communication skills to broad and diverse audiences on a range of complex and technical issues
- Ability to offer creative solutions to complex problems and translate options into implementable solutions
- Extraordinary attention to detail
- Proven flexibility to new challenges and situations
- Strong analytical and critical thinking skills
- A 'roll up your sleeves' attitude and willingness to take initiative to address issues proactively
- Ability to strategize with team members, with a focus on technological and process improvements
- Comfort communicating and coordinating with remote teams
- Passion for the organization's mission to defend public health in the face of oil and gas development

#### Education and Experience Required:

- Master's degree in computer science, statistics, applied math, or related field
- Background in public health, environmental science, or biology a plus
- Proficiency in programming languages, specifically R, Python, Java, and HTML
- 5 years' practical experience with data processing, database programming, and data analytics
- Extensive background in statistical analysis
- Excellent pattern recognition and predictive modeling skills

**Salary:** Commensurate based on experience

**Application Instructions:** Submit cover letter explaining why this role is a good fit, resume, and salary requirements to [astele@environmentalhealthproject.org](mailto:astele@environmentalhealthproject.org).

Apply by April 9, 2020 for first round review.

*All applicants and employees will enjoy equality of opportunity and fair treatment without regard to, race, color, age, religion, pregnancy, sex, sexual orientation, disability, gender identity, gender expression, national origin, genetic information, veteran status, marital status, or prior protected activity.*

*SWPA Environmental Health Project is a 501(c)(3) Pennsylvania Non-Profit Corporation.*