

***Breathe Project Air Quality and Environmental Public
Health Fellow***

Summer 2023



Fellowship Placement: Breathe Collaborative, Energy Innovation Center, Suite 140, 1435 Bedford Avenue Pittsburgh, PA 15219 (and/or remotely)

Position Description

The 2023 Air Quality and Environmental Public Health Fellow placed with the Breathe Project will multiply program impacts through the research, analysis and development of research articles, communications, marketing materials, outreach materials and programming to educate the public about outdoor air pollution in Southwestern Pennsylvania at the health effects associated with the region's ongoing poor air quality.

The Breathe Project is a clearinghouse for information on air quality in Pittsburgh, southwestern Pennsylvania and beyond. We use the best available science and technology to better understand the quality of the air we breathe and provide opportunities for citizens to engage and take action. The Breathe Collaborative is a coalition of 50+ organizations of citizens, environmental advocates, public health professionals and academics working to improve air quality, eliminate climate pollution and make our region a healthy, prosperous place to live. The Breathe Collaborative powers the Breathe Project, its community outreach platform.

The Breathe Project Fellow is a research-based position that will involve analyzing data and sensemaking of information from citizen science projects and applications including SmellPGH, Purple Air, and BreatheCam in addition to EPA-based air quality data metrics and sources. Using this analysis, the fellow will develop research articles and outreach, marketing, and communications materials to educate the public with up-to-date outdoor air quality information in Southwestern Pennsylvania. The fellow will also review policies related to air quality, public health, and environmental sources of disease in order to support ongoing policy development and advocacy efforts. The fellow will draft articles and reports, develop infographics, and work with Breathe Project staff to develop outreach and education programming and materials to interact with the public and to support policy development.

The Fellow will interact very closely with Breathe Project partners creating a myriad of useful citizen science tools and associated data as well as policy development. These interactions will engage the Fellow with experts in the creation of meaningful analytics and narratives for educational as well as policy-supporting information for communities in Southwestern PA.

General Qualifications:

- Graduate school enrollment
- Strong data analysis skills
- Experience in project design, management and implementation
- Leadership experience
- Ability to work independently within an organization
- Strong written and verbal communication skills

Projected Goals/Outcomes:

1. Ongoing daily, weekly and monthly analysis of data from citizen science projects and AQ educational materials (45%)
 - Support expansion of facts from Breathe Project tools and studies
 - Produce Air Quality research articles suitable for peer-reviewed publication
 - Update Breathe Project air quality and health fact sheets and Top-10 lists
 - Create updated statistics for regional air quality (with AQ scientists and public health initiatives)
 - Update data for Breathe Meter
 - Analyze Smell PGH data using updated geolocation information
 - Compile statistics from growing low-cost sensor networks in communities
2. Development of reports on selected data analysis projects (20%)
 - Create updated statistics for regional air quality (with AQ scientists and public health initiatives)
 - Analyze Smell PGH data using updated geolocation information
 - Compile statistics from growing low-cost sensor networks in communities
3. Development of a suite of outreach materials and resources to deliver in programming and outreach (20%)
 - Support messaging on air pollution reports
 - Create updated statistics for regional air quality (with AQ scientists and public health initiatives)
 - Update data for Breathe Meter
 - Analyze Smell PGH data using updated geolocation information
 - Compile statistics from growing sensor networks in communities
 - Interact and support policy initiatives in growing Cancer and Environment collaborative policy efforts.
4. Social media and communications support (10%)
 - Support information campaigns involving grassroots activities

5. Professional Development (5%)

To Apply:

To apply, respond with cover letter and resume to: breathe@breatheproject.org

Review of applications will begin on February 15, 2023. Applications will be accepted until the position is filled.

Please direct all inquiries related to this position to Matthew Mehalik, Ph.D., Executive Director, Breathe Project / Collaborative, at the listed email. The Breathe Project, a program of Community Foundation for the Alleghenies, is an equal opportunity employer.