



Spring 2023 GIS Environmental Justice Intern

As an advocacy organization, MCE works to advance greater protections for Missouri's people and their environment through regulation, legislation, and when necessary, litigation. Unfortunately, sometimes insufficient data exists to inform the desired policy change, which also means many citizens may not know about the environmental health harms to which they are exposed.

MCE seeks an intern to assist with creating powerful visuals that reveal the results of data we are collecting in the field and create accompanied messaging that helps Missourians understand the harms they face and how to take action.

Goal: Create compelling maps and other visuals displaying the results of various water and air quality testing projects to raise awareness about the issues and equip Missourians with the knowledge needed to take collective action.

Qualifications:

- Interest in environmental justice
- Studying environmental science, environmental studies, public health, or related field
- Experience with ArcGIS
- Experience with reading lab results for water and/or air quality testing
- Willingness to learn new programs that interpret and display scientific data
- Demonstrated success working independently as well as part of a team
- Comfortability with or willingness to communicate with new partners by phone, email, and video conferencing
- Experience with QuantAQ is a plus

Desired Deliverables:

- An interactive map that displays air quality data collected from MCE and our partners to increase awareness of air quality conditions across Missouri
- A map and/or other interactive visual of hazardous waste concerns in North St. Louis County in furtherance of goals of MCE and Just Moms STL through the STL Toxic Waste Alliance
- Visuals that display the results of water quality sampling and accompanied print/digital communication materials to share with residents concerned about water quality
- If time allows, an updated MCE map of Missouri's Concentrated Animal Feeding Operation

Intern Tasks and Responsibilities:

- Review results from air quality and water quality tests and determine how best to display the results without identifying the specific sampling location addresses



- Coordinate with MCE partners who are also monitoring air and water quality statewide to explore meaningful ways to display all organizations' data to inform Missourians and mobilize them into action
- Create communication materials about the issues of which MCE and partners are concerned that has lead to the monitoring and sampling projects
- Use data to create mapping visuals, including taking screenshots from Google Earth of known polluting entities or sources of contamination

Hours: 16 hours/week for 13 weeks. Work can be done remotely or at the MCE office.

Compensation: MCE's GIS EJ Intern receives a stipend of \$800, with half of the amount paid halfway through the internship and the remaining amount at the close of the internship.

How to Apply: Please send a cover letter and your resume to Policy Director Melissa Vatterott at mvatterott@moenvironment.org with "GIS EJ Intern" in the subject line.