



1137 N. Dodge Blvd.  
Tucson, AZ 85716  
[www.watershedmg.org](http://www.watershedmg.org)

## GIS River Restoration Internship

**Hours:** 10 hours per week

**Supervisor:** Catlow Shipek, Policy and Technical Director

**Internship Position Description:** The GIS River Restoration Support Analyst will be part of the dynamic WMG staff team developing and expanding the River Run Network, a program under WMG's 50-year goal to restore the heritage of free-flowing rivers, streams, and springs in southern Arizona. The Analyst will primarily provide data and analysis support to track progress towards river restoration goals, updating and refining the streamflow water budgets, developing and refining interactive GIS-based stewardship maps, and assisting with outreach and engagement of targeted landowners.

Primary duties related to position duties may include but not limited to:

**River Run Network Tucson Basin Streamshed Development** (ESRI ArcGIS 10+ and ArcGIS Online familiarity preferred). Continue to build on the streamshed framework (see [watershedmg.org/RRN](http://watershedmg.org/RRN)) for the Tucson Basin's major rivers and creeks. This will consist of the following:

- Refine WMG's Streamshed and Flow 365 Citizen Science data and layers using ESRI ArcGIS and ArcGIS Online
- Develop Flow365 mapping portal and data app to facilitate input, upload, and viewing of citizen science data
- Analyze trends observed in Flow365 data and develop visuals to share with Citizen Science volunteers and the public
- Utilize ArcGIS to delineate groundwater-based irrigated lands (pasture, orchard, turf, etc) within streamshed boundaries
- Research and identify riparian restoration related projects to develop a restoration project database
- Organize project data files to ensure long-term data integrity and clarity

### **Expectations of Intern**

1. Intern will fill out a biweekly timesheet and submit to supervisor.
2. Intern will communicate promptly with their supervisor by phone or email.
3. Intern will complete tasks and attend meetings on dates agreed or will inform supervisor if this is not possible.
4. Intern will complete minimum hours agreed, and if not fulfilling minimum hours, the internship will be renegotiated with the supervisor.
5. Intern will notify the supervisor of the desired end date of the internship two weeks prior to the date if different from original date.