

The Verde River in Arizona has outstanding habitat value for a diverse community of terrestrial wildlife. According to Verde Wild and Scenic River Comprehensive River Management Plan (2004), there are 51 species of sensitive, threatened, or endangered wildlife species that occur or may occur along the Verde River corridor. Our research team includes investigators from the Forest Service, US Geological Survey, and universities to develop models linking biotic communities of the Verde River to flood frequency and riparian vegetation. Our specific goals are to relate terrestrial wildlife to riparian vegetation and flow along the Lower Verde River. We plan to identify which characteristics from remote imagery are comparable to our on the ground measures and use this relationship to predict habitat structure and value in an un-surveyed reach.

Within this framework, we seek to:

- Identify characteristics from remote imagery comparable to on the ground measures;
- Use acoustical recording data and spring bird survey data from three study reaches, to develop habitat suitability curves, habitat suitability models for an un-surveyed reach;
- Relate instream flows to vegetation structure and habitat heterogeneity for birds;
- Relate instream flows to vegetation structure and habitat heterogeneity for herpetofauna;
- Summarize historical field studies, technical reports, and publications to describe the current terrestrial wildlife community;
- Provide the candidate with access to real-world conservation issues and applications.

The post-doctoral candidate will bridge ecological modelling with conservation practice to create a product that will assist in protecting critical hydrological values in an aridland ecosystem. The outstanding early-career scientist in this one-year postdoctoral position (with possible funding for a second year), will engage with an interdisciplinary team focused on connecting hydrology and terrestrial habitat values of the Lower Verde River.

Required Qualifications:

- Qualified candidates must have a Ph.D. or expect to receive a Ph.D. by the start of the appointment in ecology, biology, geography or related field.
- Excellent written and spoken communication skills
- Strong background in remote sensing, GIS, and spatial modelling
- Development and/or validation of habitat suitability modelling
- Strong analytical background in ecological modelling and statistics
- Good record of writing and publications

Desired Qualifications:

- Expertise modelling habitat selection for birds and/or other terrestrial wildlife
- Experience analyzing data from acoustical recording devices
- Strong desire to prepare manuscripts related to this work
- Commitment to meeting the needs of diverse student populations and/or reaching out to diverse communities
- Development and/or validation of habitat suitability modelling

The Science and Mathematics faculty in the College of Integrated Sciences and Arts on the Polytechnic Campus at Arizona State University invites applications for a Postdoctoral Research Assistant. This is a one-year position, with potential funding of an additional year. Workplace locations may include, the Polytechnic campus, Verde River area and other remote locations. This is a full-time (1.0 FTE), benefits-eligible, fiscal, year-to-year appointment. For additional information and policies regarding postdoctoral scholars at ASU, please see <https://provost.asu.edu/academicpersonnel/postdoc> Salary is \$47,476-\$49,000 per year, depending on experience.

Application Procedure:

To apply, visit <https://cisa.asu.edu/jobs> and upload your application as **one combined .pdf document** under job number **12614**. Only electronic submissions will be reviewed. Incomplete applications will not be considered. Applications must contain:

1. A letter of interest outlining qualifications and experience as it relates to the position
2. Curriculum vitae
3. Unofficial graduate transcripts
4. Information for three professional references (their position, title, e-mail, phone number)

The application deadline is **11/29/2018 at 5pm**; and if not filled, then every Friday thereafter until the search is closed. Official Transcripts required prior to first day of employment. A background check is required prior to employment. For technical assistance with your application contact cisajobs@asu.edu, for position-related questions contact Search Committee Chair Dr. Heather Bateman at Heather.L.Bateman@asu.edu.

Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law. (See ASU's complete non-discrimination statement at <https://asu.edu/aad/manuals/acd/acd401.html>; see ASU's Title IX policy at <https://www.asu.edu/titleIX/>)

ASU offers applicants an opportunity to voluntarily self-disclose information for the University affirmative action plan; applicants may complete an [EEO survey](#) for the position they are applying for online. Information you will need to complete the survey: Job Number: 12614; Job Title: Postdoctoral Research Scholar, Department Name: College of Integrative and Sciences and Arts.

General Information: Arizona State University is a comprehensive public research university named #1 in the United States for innovation for the fourth consecutive year, (<https://asunow.asu.edu/20180909-asu-news-ranked-most-innovative-US-school-fourth-time>) followed by #2 Georgia State and #3 MIT. We measure our success not by whom we exclude, but rather by whom we include and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities we serve. ASU's College of Integrative Sciences and Arts is home to innovative teachers who are guided by educational access, student success, applied learning, and interdisciplinary inquiry. We understand there are many paths to achieving a university education, and we build [undergraduate](#) and [graduate](#) degree programs and pathways that are flexible and relevant for a rapidly changing world. To learn more about ASU and the College of Integrative Sciences and Arts go to: <http://about.asu.edu/> and <http://cisa.asu.edu>.

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