



TEXAS PARKS AND WILDLIFE DEPARTMENT
invites applications for the position of:

Hydrologist II-III (Water Quantity Program Hydrologist)

SALARY: \$4,811.73 - \$5,020.25 Monthly

OPENING DATE: 11/22/16

CLOSING DATE: 12/13/16 11:59 PM

DIVISION: Coastal Fisheries

WORK ADDRESS: TPWD Headquarters, 4200 Smith School Road, Austin, TX 78744

HIRING CONTACT: David Bradsby, (512) 389-8048

GENERAL DESCRIPTION:

The Water Quantity Program Hydrologist is responsible for evaluating potential impacts to stream hydrology and flow components from proposed and existing water resource projects and coordinates with Program and other agency staff to consider potential effects upon aquatic and estuarine ecosystems from altered flow regimes. Performs hydrologic analyses related to surface water availability, instream flows, and freshwater inflows in response to water development projects, water right applications, environmental flow standards, spring conservation efforts, hydrogeological investigations, and regional water planning activities. Utilizes the Texas Commission on Environmental Quality (TCEQ) water availability models (WAM) and other tools to assist in initiatives of the Water Quantity Program related to identifying, maintaining, and securing water for environmental purposes. May plan, assign, and/or oversee the work of others and may coordinate and oversee the efforts of a specialized team. Represents the department in technical workgroups and committees and acts as a lead scientist or expert on complex scientific issues for the department. Performs additional duties as assigned. Complies with all Agency, Division, Branch, and rules, regulations and procedures.

POSTING NUMBER: 17-00115

QUALIFICATION GUIDELINES:

MINIMUM QUALIFICATIONS:

Education:

- Graduation from an accredited college or university with a Bachelor of Science degree in Hydrology, Engineering, Geology or closely related Natural or Physical Science field.

Experience:

- **Hydrologist II:** Two years of full-time experience performing hydrologic work;
- **Hydrologist III:** Four years of full-time experience performing hydrologic work.

Licensure:

- If driving is required, applicant must possess a valid State driver's license.

ACCEPTABLE SUBSTITUTIONS:

Experience:

- Graduation from an accredited college or university with a Master's degree in a closely

- related Natural Science field may substitute for one year of required experience;
- Graduation from an accredited college or university with a PhD in a closely related Natural Science field may substitute for two years of required experience.

PREFERRED QUALIFICATIONS:

Experience:

- Experience in hydrologic and geohydrologic assessments related to environmental flows;
- Experience with water availability modeling;
- Experience with hydrologic alteration models;
- Experience in advanced statistical techniques for analyzing hydrologic and natural resource data;
- Experience in coordinating and working directly with stakeholder groups.

KNOWLEDGE, SKILLS AND ABILITIES:

Hydrologist II:

- Knowledge of hydrological, ecological, biological, and/or scientific principles and techniques;
- Knowledge of aquatic ecosystems in Texas;

Hydrologist III:

- Knowledge of Hydrologist II, PLUS:
- Knowledge of current science, tools, and techniques used to evaluate and determine water availability and environmental flow needs;
- Knowledge of groundwater, riverine, and/or estuarine processes;
- Knowledge of TCEQ WAM, RiverWare, and other hydrologic models;
- Knowledge of water rights, water planning, environmental flow standards, and environmental flows allocation process in Texas;

Hydrologist II:

- Skill in using MS Word, Excel and Outlook;
- Skill in using and operating gear and instruments for the collection of hydrological, biological, and water quality data;
- Skill in effective oral and written communication;
- Skill in establishing and maintaining effective work relationships with co-workers and work-related contacts;

Hydrologist III:

- Skills of a Hydrologist II, PLUS:
- Skill in analyzing hydrologic data and preparing concise reports and technical publications;
- Skill in developing recommendations to conserve instream flows, freshwater inflows, and spring flow for fish and wildlife resources;
- Skill in performing hydrologic assessments of aquatic, estuarine, and/or riparian systems;
- Skill in working with inter- and intra-agency groups to attain goals;
- Skill in negotiating with varied stakeholder groups to advance TPWD's mission and goals;
- Skill in interacting and communicating effectively orally and in writing on technical issues to diverse groups including staff, the public and other governmental agencies;

Hydrologist II:

- Ability to participate in teams of professional and technical staff;
- Ability to maintain working relationships with superiors, subordinates and peers;
- Ability to place priorities on workloads and meet deadlines;
- Ability to perform manual labor including, lifting supplies and materials up to 50 lbs;
- Ability to conduct work activities in accordance with TPWD safety program;
- Ability to work under general supervision with limited latitude for the use of initiative and independent judgment;

Hydrologist III:

- Ability of a Hydrologist II, PLUS:
- Ability to design and conduct scientific experiments, collect and analyze data, prepare scientific and administrative reports;
- Ability to work under limited supervision with considerable latitude for the use of initiative and independent judgment.

**ADDITIONAL INFORMATION:
WORKING CONDITIONS:**

- Required to work hours other than 8:00 a.m. to 5:00 p.m., with days off other than Saturdays, Sundays and holidays;
- Required to perform manual labor including, lifting supplies and materials up to 50 lbs.;
- Required to perform work outdoors, occasionally in adverse weather conditions;
- Required to fully participate in water based sampling activities;
- Required to travel 20% with possible overnight stays;
- Non-smoking environment in State buildings and vehicles.

ADDITIONAL INFORMATION:

In order to be considered for this position, the following information is required:

- Submission of a completed online application;
- Work history experience **MUST** be completed in the online application;
- A scanned copy of official college transcript(s) issued from the registrar must be attached to the online application (if applicable);
- Applicants must attach a DD214 or other supporting documentation to the online application to claim Veterans Preference.

NOTE: Resume and professional references may be attached to the online application, but not in place of the completed application. A skills test may be conducted at time of interview.

Army 72

Navy AG, 180, 646

Coast Guard 23, 51, 52, ENG11, ENG12, OAR15

Marine Corps 68, 88

Air Force 1W, 8E, 15

http://www.hr.sao.state.tx.us/Compensation/MilitaryCrosswalk/MOSC_NaturalResources.pdf