

2025 INTERNSHIP PROGRAM

County of Orange
OC Public Works

OC Environmental
Resources



OC Environmental Resources Internship Opportunities Summer 2025



What is the Internship Program?

OC Environmental Resources (a service area of Orange County Public Works) has intern positions available for this summer and early fall. Interns will work with environmental staff on a wide range of projects involving water quality, watershed management, environmental policy, and regulatory compliance.

Internship positions are unpaid and require a commitment of at least 2 days a week for a 3-month period and could continue into Fall 2025.



Where is it Based?

OC Environmental Resource's main office is located at 2301 N. Glassell Street, Orange, CA 92865. A number of the intern projects will require field activities in different parts of Orange County. For some assignments, interns may be required to operate their own personal vehicle and will receive mileage reimbursement.



Who can apply?

College students and recent graduates with a strong interest in water quality issues are encouraged to apply. Some of the projects may require a strong science background and specialized coursework.

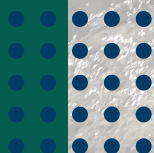
How do I apply?

Please review the projects on the following pages and determine which one is of most interest to you. You must then submit:

a **cover letter and resume** clearly identifying your project selection and your reasons and applicable skills for selecting it.

Email your cover letter and resume to **Michael Mori** at michael.mori@ocpw.ocgov.com with the subject line "**Summer 2025 Internship Application**". Applications that list more than one project will not be considered. Some projects may have multiple interns.

The application period will close at **11:59 pm on May 21, 2025**. The applications will be used as part of the selection process, so please ensure they fully reflect your qualifications and interests. The candidates whose applications best meet the needs of the projects will be scheduled for interviews.



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Water Quality Monitoring Support

Project 1

This internship will support various water quality monitoring activities throughout the County at channels, creeks, outfalls, and coastal ocean for physical, chemical, and biological (including microbial) analyses. The monitoring data will then be used in various compliance, investigative, and research projects and programs to better understand aquatic resources.

The intern will assist with 1) field monitoring support for permit compliance; 2) monitoring of storm drain outfalls; 3) using a laboratory information management system; 4) on-site analysis of water quality; and 5) other monitoring, research projects and lab work.

The intern should have a reliable mode of transportation and a strong interest in fieldwork and water quality science. Experience in field work is a plus.



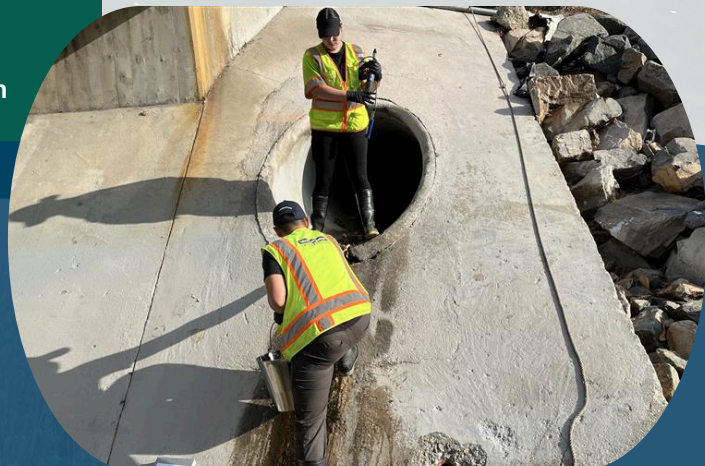
Hydrologic Program Support

Project 2

This internship will support the County's Automated Local Evaluation in Real Time (ALERT) system, which is a network of rainfall and stream gauge stations dedicated to assist with flood detection, storm tracking, environmental monitoring, and water resource management throughout Orange County.

The intern may assist with 1) the maintenance and inspections of ALERT stations, including rain gauges, stream gauges, and weather stations, ensuring data accuracy and reliability; 2) the installation of new ALERT stations or the deactivation of old stations; 3) stream gauging using a handheld flow meter to collect discharge measurements at various locations; 4) help document maintenance activities and data collected using Survey 123 forms to ensure accurate records are maintained; and 5) utilization of data management software to conduct QA/QC and analysis of hydrological data.

The intern should possess a reliable mode of transportation and a keen interest in hydrology, fieldwork, and data management.



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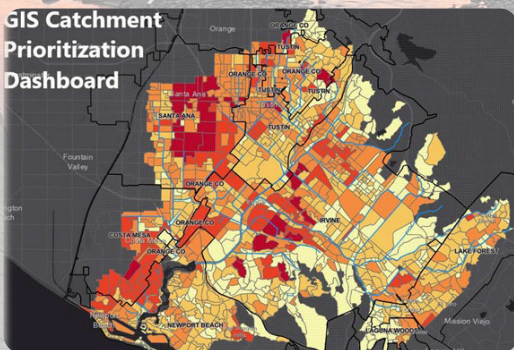
North OC Dry Weather Monitoring and Automated Sensor Program

Project 3

The intern will assist with the traditional Dry Weather Monitoring (DWM) program by conducting water quality sampling, performing analytical field tests, and preparing samples for further analysis. This internship will also provide the intern with hands-on experience with a new automated sensor program, which utilizes low-cost miniature water and flow sensors for illicit discharge detection and elimination (IDDE) pollution incidents in the storm drain system. The sensors send continuous water quality and flow data to a cloud-based dashboard, where anomalies are identified through a customized algorithm in real-time. The data collected will support various compliance, investigative, and research projects.

The intern will support the County with 1) assisting with sampling outfalls and inventory preparation; 2) installation, calibration, and maintenance of smart sensor devices; 3) follow up on smart sensor incident alerts; 4) assist with other monitoring programs in the field as needed.

Candidates should have a reliable mode of transportation and a strong interest in fieldwork and water quality science.

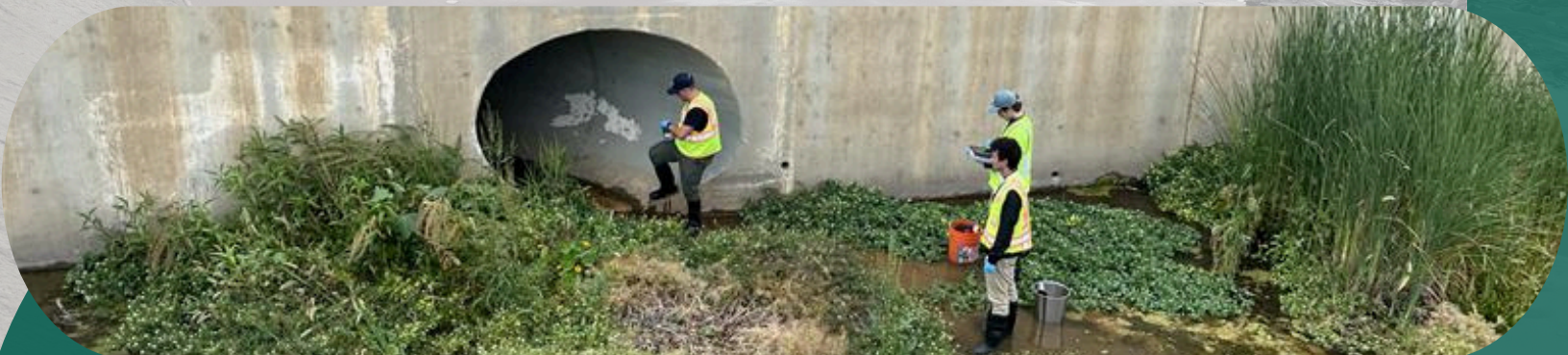


County NPDES Compliance Program Support

Project 4

This internship will expose the intern to the variety of program compliance elements which make up the basis of the County of Orange and Orange County Flood Control District stormwater programs. Multiple metrics are needed to track and report progress and compliance with two separate regional NPDES permits issued to the County.

The intern will 1) verify and update existing data on existing development facilities via field surveys; and 2) using GIS, update existing development storymap with field survey data.



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H₂OC Public Education and Outreach Support

Project 5

This internship will support H2OC stormwater education outreach efforts across Orange County with a focus on diverse and underserved communities. H2OC is a countywide, cooperative program that provides resources to residents and businesses to prevent water pollution and encourage personal action (www.h2oc.org).

The intern will assist with 1) creating and managing a comprehensive database of community events and other in-person outreach opportunities; 2) coordinating and staffing outreach events throughout Orange County; 3) engaging with diverse community members to provide stormwater education; 4) tracking outreach metrics and community impressions; and 5) developing educational materials for K-12 students.

The intern should possess a reliable mode of transportation and a strong interest in public outreach and education. Weekend availability is required and the ability to converse in Spanish, Vietnamese, and/or Korean & Chinese is highly desirable.



South OC Stormwater Program Support

Project 6

The South Orange County stormwater program works to maintain regulatory compliance with San Diego Regions' municipal stormwater permit and the Water Quality Improvement Plan (WQIP). It does this through the development and implementation of programs and projects to improve the County's aquatic resources.

The intern will assist with 1) supporting the staff in programmatic efforts including committees and project meetings; 2) updating and development of online platforms and tools; and 3) assist with South OC specific monitoring and data management.

