



**SIX MONTH INTERNSHIPS**  
**\$24.00 per hour**

Central San is a special district that provides wastewater collection, treatment, and disposal services; recycled water production and distribution; and household hazardous waste collection. These internships are 40-hours, Monday through Friday, and located onsite in Martinez. These temporary positions are a six-month commitment, starting in June 2023/July 2023 and ending in December 2023/January 2024. To be eligible, you must possess a valid California Driver's License and have a satisfactory driving record. The positions also require you to be a current student with junior or senior standing, or to have graduated within the past 12 months. These assignments provide an opportunity for students to apply their academic preparation to practical work experience in a wastewater utility environment. Students interested in applying for the following position(s) should submit a cover letter, resume, and unofficial transcript(s) at [intern@centralsan.org](mailto:intern@centralsan.org)

**ENGINEERING AND TECHNICAL SERVICES DEPARTMENT (10 positions)**

**Environmental and Regulatory Compliance Division (2 position)**

**Environmental Laboratory** (1 position)

This position will be assigned to perform chemical, physical, biological, and microbiological analyses of wastewater and its byproducts. Duties include assisting staff with projects, sample collection, sample analysis, operating simple laboratory instruments and associated computers. Duties may require research and assistance with project management and development. This position may also perform literature searches, compile scientific data, perform data analysis and reduction, and write reports and presentations. **Additional Preferred Qualifications** – Seeking students with chemistry, biochemistry, biology, microbiology, chemical engineering, or environmental engineering majors. Lab experience preferred.

**Regulatory Compliance** (1 position)

This position will be assigned to perform environmental compliance, regulatory planning, and investigation of Central San's wastewater treatment plant and collection systems. Duties include assisting engineers with process and data analyses of wastewater treatment plant processes and preparation of technical reports and root cause analyses. This position may also support the compliance emissions testing program, interpret regulations, and assist with pilot projects and special studies. Coordination with operations, maintenance, and engineering staff may be included. **Preferred Qualifications** - Seeking environmental, civil, chemical, mechanical, or related engineering majors. Students should have knowledge of computer spreadsheet development, word processing, and basic physics and chemistry. **Additional Information** – Possible reduced work schedule (fewer than 40 hours/week) available for students taking classes during the period of employment. Reduced work schedule will be evaluated on a case-by-case basis. Please include work availability and total class units with application for this position if interested in reduced schedule.

**Capital Projects Division (4 positions)**

**Survey Support Section** (1 position)

The position supports sewer renovation, right-of-way, and development review projects. Duties will include performing both office and field land surveying. Typical tasks will include calculating survey maps, planning and researching projects, reviewing plans, reviewing legal descriptions and plats, assisting with CAD drafting, and assisting with GPS and conventional surveys. **Additional Preferred Qualification** – Completed a survey course.

The 3 positions below will be assigned to one or more project design/construction teams. As part of the design/construction team, duties will include determining and verifying field conditions, engineering calculations, data



analysis, field surveying, researching, and designing equipment and construction methods, writing project documents and memoranda, preparing design details for project drawings, and assisting design and construction management teams.

**Collection System Program** – Projects currently under design and construction involve replacement and rehabilitation of sewer pipelines, manhole structures, and various improvements in the collection system and at pumping stations. The video inspection of 1,500 miles of sewer pipe is also in progress. This position will be working with engineering in design and construction, utilizing trenchless technology such as cured-in-place lining, pipe bursting, and horizontal directional drilling.

**Treatment Plant Program** – Projects currently underway include process, structural and mechanical system rehabilitations, solids handling facilities planning and design, equipment and piping rehabilitation, energy management, recycled water, safety enhancements, electrical, instrumentation and controls upgrades, fire and security alarm systems and similar projects. This position will work with engineering and treatment plant operations staff to replace and improve critical infrastructure on an active treatment plant.

**Preferred Qualifications for the above 3 positions** – Central San is seeking environmental, civil, chemical, mechanical, or related engineering majors. Students should have knowledge of computer spreadsheet development, word processing, and basic physics and chemistry. Applicant should have ability to organize work assignments; learn to use industry specific software; design and perform project specific tasks; write clear, concise reports and aid personnel in any field work. Should have the ability to work independently, be self-motivated, patient, and respectful.

### **Planning and Development Services Division (4 positions)**

#### **Special Projects** (1 position)

This position will assist Special Projects with treatment plant and/or collection system preliminary design and planning projects. Typical work includes engineering assistance with data collection, reviewing past project drawings and technical reports, literature review, developing presentations, and data analysis.

#### **Treatment Plant Planning** (1 position)

This position will assist the Planning and Applied Research Group on treatment plant planning and applied research projects. Typical work includes engineering assistance with pilot and bench scale studies, technical and economic evaluations of treatment plant processes and optimization opportunities, researching innovative technologies, cost estimating, writing technical memoranda, reviewing past technical reports and literature review, developing presentations in Microsoft PowerPoint, data management and analysis using Microsoft Excel, and providing day-to-day project support. **Additional Information** – Possible reduced work schedule (fewer than 40 hours/week) available for students taking classes during the period of employment. Reduced work schedule will be evaluated on a case-by-case basis. Please include work availability and total class units with application for this position if interested in reduced schedule.

#### **Recycled Water** (1 position)

This position will assist the Planning and Applied Research Group on implementation of Central San's commercial, residential, and recycled water distribution programs and assist staff in the planning and evaluation of recycled water projects. Typical work includes routine customer interaction, assisting with recycled water distribution system operations and maintenance engineering support tasks, interdepartmental coordination, report writing, literature review, internet research, recycled water usage tracking and billing, regulation tracking, and assistance in developing program guidelines, documents, and manuals. **Additional Information** – Possible reduced work schedule (fewer than 40 hours/week) available for students taking classes during the period of employment. Reduced work schedule will be



evaluated on a case-by-case basis. Please include work availability and total class units with application for this position if interested in reduced schedule.

**Collection System Planning** (1 position)

This position will assist the Planning and Applied Research Group on collection system planning and applied research projects. Typical work includes engineering assistance with strategic sustainability and resiliency planning, technical and economic evaluations of collection system infrastructure and optimization opportunities, researching innovative technologies, cost estimating, writing technical memoranda, reviewing past technical reports and literature review, developing presentations in Microsoft PowerPoint, data management and analysis using Microsoft Excel, and providing day-to-day project support. **Additional Information** – Possible reduced work schedule (fewer than 40 hours/week) available for students taking classes during the period of employment. Reduced work schedule will be evaluated on a case-by-case basis. Please include work availability and total class units with application for this position if interested in reduced schedule.

**Preferred Qualifications for the above 4 positions** – Central San is seeking environmental, civil, chemical, mechanical, or related engineering majors. Students should have knowledge of computer spreadsheet development, word processing, and basic physics and chemistry. Applicant should have ability to organize work assignments; learn to use industry specific software; design and perform project specific tasks; write clear, concise reports and aid personnel in any field work. Should have the ability to work independently, be self-motivated, patient, and respectful.