



2020 VIRTUAL SUMMER SUPERSTARS INTERNSHIP

6 WEEKS/ 10 HOURS PER WEEK

JULY 22 - SEPT. 2

Engineering Projects

Redzone

Students will be provided an excel spread sheet with preloaded categories, coupled with redone video footage. While reviewing the video, the intern will classify all of the defects that exist within the line. The intern will be expected to keep track of all of the defects that are visible and provide an accurate count. For example, how many longitudinal or transverse cracks exist or offset joints, holes. Also, interns will classify the severity of the defect. The spread sheet provided will help the intern with organization.

Through this process, the Authority will have the ability to determine the sections of pipe that are in the most critical position. Armed with this knowledge, the Authority can implement a strategy to repair/replace critical lines prior to the conditions worsening even further. This information will help the Authority target lines or areas that are in critical condition.

The intern will gain an understanding of the failures that can occur within the piping system. It is important for a system to undergo frequent evaluation. This helps the maintenance of the lines. Once a student is able to see the failures that occur within the pipe, that student will be better equipped, when designing systems, to understand how or why certain pipe material behavior under light to harsh conditions, effectively helping the intern to design more effective and efficient systems.

Plan Reviews

Students will gain the experience of reading through Specifications. The student will understand the different sections of the spec book and the nuances between specs, depending on the professional writing it. The student will gain experience understanding the statutory requirements, the actual specs, contract documents and the expectation set forth through the specs.

The student will have the opportunity to review plans, to confirm the requirements within the specs are shown.

Once completed, the student will generate a report. This report will indicate any inconsistencies that are found. The student will review to ensure compliance is met. With the report, the Authority will have the ability to engage our consultants with a better appreciation and understanding of the work being completed.



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Marketing/Communicate Project

Communications Plan

Another key goal for the WMUA in the past years in improving our communication with the public and our staff. To further that process this project will involve the Superstar team to develop a communication plan for the WMUA. The communication plan will outline our current community engagement (i.e. Mail, website, newspaper) and evaluate its effectiveness they will then come up with a communications plan that will lay out a public and internal communications plan that will improve community awareness and engagement and provide the WMUA with a modern vehicle to inform the public of what is happening with the WMUA as well as what they can do to help maintain the system. This type of community engagement will help improve the overall quality of our system by improving public awareness.

Deliverables

- Current Community Engagement analysis
- Future Community Engagement Plan

Education/Communications Project

Training and Development Manual

A key object of the MUA for the past few years has been to increase the amount of workers with licenses. Improving the overall skill level of our workforce will result in higher quality outcomes for the WMUA. With the advances in technology of our system it is important to have well skilled operators. The training and development project will be tasked with beginning the development of our internal education system for employees. First, we will organize all current standard operating procedures for all three departments into a guide for each department. Next, they will begin to develop the training manuals necessary to pass each licensure. This will give the WMUA the ability to support our employees in their acquisition of licenses as well as train future employees on the basics of our system and how to improve on their licenses.

Deliverables

- Water SOP Manual
- Sewer SOP Manual
- System Maintenance SOP Manual
- Intro to water wastewater systems Manual



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Finance/Business Project

Finance and Budget

The finance and budget project will work with the Finance Director and budget committee in developing reporting on 2020 performance and our 2021 budget. They will be responsible for providing projects and models illustrating various project parameters and timelines for presentation to the board. We are currently engaged in a multitude of capital projects that will affect the short term and long term cashflow of the MUA. Providing information on the impacts of our plans and projects will give the board vital information to use for future planning.

Deliverables

- 2020 mid-year performance evaluation
- 2021 Budget Projections
- 5-year budget analysis and capitalization plan