Improvements Considered for Vicksburg’s Water System

Upgrades to Vicksburg’s water system are expected to cost $18.6 million over 10 years, according to an analysis by a Houston engineering firm, reports the Vicksburg Post. Among the proposed improvements: adding parallel pipelines between the clarifiers and filters at the water treatment plant, deepening the clear well suction pipelines, and setting up a GIS survey of the city’s water system that links directly to a hydraulic model for determining future projects and repairs.

Vicksburg’s mayor said the GIS for monitoring the system should be the top priority as well as locating missing revenue from the water system. He said the city is billing for 70% of the water the city is producing.

“The study,” the article says, “was commissioned in the wake of a paralyzing ice storm in mid-February that created problems for the city’s water system.”

Out of the Blue, USM Opens Gulf Coast Business Accelerator

The University of Southern Mississippi has unveiled an initiative that it hopes will open the door for higher paying jobs, student employment, and a future for marine, engineering, science, and prototyping careers in the state, according to WXXV 25. Dubbed Gulf Blue, the initiative will make its home at historic Gulf and Ship Island building in Gulfport.

The business accelerator will provide a place where innovators can work with university research scientists and federal partners to solve challenges in six areas: uncrewed maritime systems, ocean-friendly plastics, precision aquaculture, smart ports, coastal data, and sea-space systems.

Stay up to date on legislative issues through the NSPE Advocacy Center.
Have You Registered for Virtual PECon 2021?

With sessions on leadership, innovation, diversity, ethics, time management, and more, there is a session for everyone at the 2021 Virtual Professional Engineers Conference (Aug 3-5). The early bird registration rates end after today (July 14).

You won’t want to miss out on the keynote speakers, networking with your friends and peers in Coffee Chats, solving everyday problems in MasterMind sessions, and PE Day (August 4). Here’s a peek....

- Managing Up, Out and Within (Stephanie Buckingham and Paula E. Miles, P.E.)
- Cyber-attacks and Resilience (James Livermore and Dave Ubert)
- NSPE Engineering Excellence Awards
- Mars Is a Harsh Mistress (So is the Moon) (George Hamilton, P.E., F.NSPE)
- Delegation: How to Manage the Monkeys on Your Back (Shelley Rowe, P.E.)

Iowa Approves PE Exam Before Experience

PE license candidates in Iowa will have the opportunity to take the PE exam prior to meeting the four years of experience requirement.

Legislation (H.F. 284) signed by Governor Kim Reynolds in April eliminates the requirement that applicants for a professional engineer license must show necessary practical experience in engineering work prior to taking the PE exam. The bill does not alter other experience requirements for applicants.

Individuals applying for licensure in Iowa should access the Iowa Engineering and Land Surveying Examining Board website for updates on implementation of the rule change.

In states that have “decoupled” the experience and examination requirements, applicants are still required to complete all education, examination, and experience requirements before being granted a PE license.

NSPE believes that licensing boards should provide the option of taking the PE exam as soon as applicants for licensure believe they are prepared to take the exam and have passed the FE exam. Applicants, upon passing the exam, should...
Engineering occupations are some of the highest-paying and most prestigious in the US labor market, but they are also some of the least diverse. A new report from the Georgetown University Center on Education and the Workforce finds that between 1990 and 2019, the total number of Black/African American and Latinx students who graduated with a bachelor’s degree in engineering increased nearly fourfold, but there is still far from equitable representation.

Over the same time period, the Latinx share of bachelor’s degrees in engineering increased from 3% to 13%, while the Black/African American share held steady at 4%. At this pace, achieving racial equity in engineering on par with population share would take 76 years for Latinx and Black/African American workers as a group and up to 256 years for Black/African American workers alone.

“Having a career in engineering means you’ve made it,” said Anthony Carnevale, CEW director and report lead author in a statement. “While it’s a marker of climbing the wage and status occupational pyramid, it’s also a social indicator of progress on racial and gender justice.”

The report addresses how Black and Latinx are underpaid in a profession that pays very well. A person with an engineering bachelor’s degree (and no graduate degree) earns 25% more on average than the typical bachelor’s degree holder in the first job after graduation.

However, as with almost all fields, Black/African American and Latinx workers earn less than the average. While White and Asian workers with a bachelor’s degree in engineering earn 61% and 71% more, respectively, than the average for all bachelor’s degree holders, Black/African American and Latinx engineering majors earn just 15% and 18% more, respectively. To attain earnings comparable to those of White engineering majors, Black/African American or Latinx engineers must earn an additional degree beyond the bachelor’s degree.

The report authors emphasize that it shouldn’t take decades or centuries to ensure diversity in the engineering workforce mirrors diversity in society. It will take a comprehensive, committed, and innovative approach from employers and
universities to close the gap.

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