

HIMES HIGHLIGHTS

TEAMMATE UPDATES



PRIYANK SHASTRI WELCOME TO THE TEAM

Priyank joined Team GSD to support our leading data center and mission critical services group. He is a quality-drive and client-oriented professional with ten years of focus in engineering, design and construction projects. Priyank specializes in critical infrastructure upgrades in live data centers for capacity delivery.

In addition to his experience, Priyank is a certified PMP with degrees in electrical engineering as well as management, and he has a penchant for electrical & controls engineering.

Outside of work, Priyank enjoys reading, biking on the W&OD trail and camping.

TAMI ROCHA WELCOME TO THE TEAM

Tami joined Team GSD with the Washington, D.C. team and her first assignment is with a biopharmaceutical client in the region in support of various campus renovations and expansions. Tami is a certified PMP with a degree in civil engineering as well as her MBA.

She has managed construction projects for high-profile clients in the U.S. and in Brazil. Tami has worked with medical buildings, manufacturing plants as well as administrative buildings.

In Tami's leisure time, she enjoys exploring parks with her family and pursuing her hobbies including photography, blogging, fitness, cooking and reading.





EMPLOYEE UPDATES



JAMES WHITELY ONE YEAR ANNIVERSARY

After your 1st year with Himes, what have you learned about Team GSD and the projects that you lead?

One thing I learned about Team GSD is that there are still companies out there where the employer cares just as much for their employees as they do about making a profit and meeting the company's goals. It is great being a part of a team that is supportive, and employee oriented.

What do you think your biggest impact has been for your client and team in 2023?

I feel the biggest impact I have had on my client is the willingness to take on

any kind of project regardless of the scope, budget, complexity or visibly. I strive to be a true team player and help out wherever I can, and I feel that my client knows they can depend on me to help them reach their goals.

What are you looking forward to in 2024?

In 2024 I am looking forward to continuing to bring value to the relationship that Himes has already established with my client. I also would like to help bring new clients to Himes or help show new clients why Himes is a great company to partner with.

BRITTANY ANGLE ONE YEAR ANNIVERSARY

After your 1st year with Himes, what have you learned about Team GSD and the projects that you lead?

Can't believe it's been a fantastic year already with Team GSD. I'm truly amazed by the collective ingenuity, knowledge, and innovative problem solving consistently displayed by our team members. The GSD but with a smile attitude makes for a remarkable sense of camaraderie that is both refreshing and inspiring and our leadership cultivates an environment of inclusivity and support. Each project brings its own unique set of opportunities to problem solve, and there's something new to learn every day. The complex and technical nature of our projects necessitates managing stakeholders and subcontractors at all levels. The engineer in me appreciates meticulously tracking and completing each discipline and component while the extrovert gets to focus on the human aspect.



What do you think your biggest impact has been for your clients and team in 2023?

Enthusiasm! I truly love what we get the opportunity to do together each day and that enthusiasm is contagious. Motivating our teams towards excellence and fostering collaborative efforts at all levels has been particularly rewarding.

What are you looking forward to in 2024?

Such an exciting lineup of projects ahead this year, including installing the first hydrogen blend boiler in BGE's fleet here in Baltimore, MD. Looking forward to the opportunity to continue enhancing the built environment for our clients and their users, nurturing new team dynamics, and exploring the integration of AI into our operational processes. Most of all, looking forward to getting more involved with NAWIC and CREW here in Baltimore and empowering the future generation of women in Construction - may all young women know that jobs don't have genders!



WELLTOWER - SANTE FE MEDICAL OFFICE BUILDING

The Welltower Sante Fe Medical Office Building development is across 9.68 acres of an 18-acre site and involves the construction of a 95,000 BGSF Medical Office Building with 491 on-grade parking spaces. The building is to be three levels and is intended upon lease execution, to hold one single tenant. The tenant is to be McKesson Corporation.

Core & Shell Construction began in June of 2023 and this project should wrap at the close of Q3 in 2024. significant progress was made on both Core & Shell and Tenant Improvement construction, including concrete work such as LINAC vault and control room placement, retaining wall completion, and chiller pad installation.



Exterior of the Medical Office Building

Interior work saw advancements in wall and ceiling framing, MEP rough-in, and drywall installation on multiple floors. Site work included finishing MSE retaining walls, irrigation line installation, and light pole base pouring. Building envelope work commenced with insulation and roofing of the LINAC vault. Mechanical and electrical milestones were achieved, with temporary energization by PNM, RTU startup, and elevator cab delivery. Constraints included delayed RTU and switchgear deliveries, impacting plumbing testing and drywall installation, ultimately affecting the project timeline. Mitigation efforts are ongoing to expedite turnover to the tenant by June 27, 2024, and achieve a Certificate of Occupancy by the end of June 2024, with close coordination on equipment requirements.



AI WRITE-UP - KIRK BOWERS

Artificial Intelligence (AI) Data centers: Power

In the last installment we briefly discussed the cooling needs of the AI systems. Now, let's look at the power needs. To say that data centers in general require sizable quantities of power is accurate and nothing new.

For data centers housing AI, it is helpful to quantify what is being consumed. According to the University of Washington's UW news, Chat GPT-3 used 10 gigawatt-hours (gWh) of energy to be 'trained,' which is comparable to the annual power usage of approximately 1000 US households. When in use, it consumes about 1 gWh a day, which is equivalent to 33 thousand US homes. However, the consumption of ChatGPT-4 is, according to some estimates, 40 times higher, or equivalent to 1.32 million US households.

Recently, there has been a lot of discussion as to the methodologies of providing power generation for Data Centers. For this short post, I won't address power generation but wanted to look at improving efficiencies of data centers housing AI by using AI, Machine Learning (ML), and deep learning to deliver energy savings and operational efficiencies through data analytics.

Yang et al., in a 2018 paper titled "AI-powered Green Cloud and Data Center," indicated that AI had proven to be more effective at efficiency improvements of cooling systems through what they termed the "intelligent refrigerating engine," which used "deep learning to explore key elements of energy consumption, predict energy consumption, and build an intelligent cloud refrigeration engine."

Recently, a small 2023 study by Adebisi Ogunsanmi titled "AI and ML for Data Center Operations" indicated that there is acceptance of the idea that AI & ML can improve a facility's efficiency, be useful in DC operations, and there is a positive response in the trust in AI to make operational decisions.

I look forward to seeing how effective AI, ML, and deep learning can be in active DCs at increasing efficiencies, reducing energy consumption, and possibly reducing costs.



SUNRISE SENIOR LIVING - BRIGHTON GARDENS OF COLUMBIA



Dining Area at Brighton Gardens



Common Area at Brighton Gardens

Himes is providing Project Management and Owner's Representative services for Sunrise Senior Living in the renovation of their Brighton Gardens of Columbia Facility, Columbia, MD.

Phase 1 of the Project was completed in December, and included a restack and renovation of the facility's Memory Care resident units, dining, common area, and amenity spaces. Currently underway with a forecasted June 2024 completion, Phase 2 will bring a new addition and outdoor terrace for Memory Care residents along with activity rooms for both Memory Care and Assisted Living residents.

The final phase of the project will feature a newly renovated lobby and main dining area with scheduled completion for the fall. The project has been designed by Page Southerland Page and the General Contractor is Wohlsen Construction.

BALTIMORE GAS & ELECTRIC - EV EXPANSION PROGRAM



New EV Chargers Installed in 2024

BGE has enlisted the expertise of Himes Associates, Ltd. to spearhead the expansion of EV Chargers throughout its Facility portfolio, facilitating the transition of BGE's Fleet vehicles from ICE (internal combustion engine) to BEV (battery electric vehicle) and Hybrid vehicles. The Himes team is fully dedicated to this endeavor, collaborating closely with Engineering and Electrical contractors to oversee the design and construction phases.

The primary objectives for the year include modernizing the infrastructures at LBB, RBC Fleet Center, Spring Gardens, with additional enhancements planned for White Marsh Service Center, Perry Hall Service Center, Front St, EOB, GEB, and the Annapolis office. We are actively installing a variety of new level 1, 2, and 3 chargers across these facilities, while also upgrading power systems to accommodate future expansions. Looking ahead, BGE aims to extend this initiative to Piney Orchard, Pumphrey, White Marsh, and Howard Service Center in the coming years.