



THE CRANEY ISLAND CONNECTION

CRANEY ISLAND EASTWARD EXPANSION NEWS AND INFORMATION

VOLUME 2 ISSUE 4

OCTOBER 2008

Quality Control Managers

Longshoremen

Heavy Equipment Operators

Heavy Equipment Operators

Inventory Managers

PORT OF OPPORTUNITY
THE PORT OF VIRGINIA

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THE CRANEY ISLAND CONNECTION IS PUBLISHED MONTHLY UNDER THE AUSPICES OF THE VIRGINIA PORT AUTHORITY AND THE U.S. ARMY CORPS OF ENGINEERS, TO PROVIDE READERS WITH REPORTS RELATED TO THE DEVELOPMENT OF THE EASTWARD EXPANSION OF CRANEY ISLAND. ARTICLES PRINTED HEREIN ARE FOR INFORMATIONAL PURPOSES ONLY. WE INVITE READERS TO COMMENT ON ARTICLES AND SUGGEST FUTURE TOPICS FOR CONSIDERATION.

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The Commonwealth of Virginia ranks twelfth in the nation in terms of Gross Domestic Product. Virginia's strong economy is due in large part to its vibrant maritime industry. The Port of Virginia boasts a longstanding legacy of providing economic vitality through maritime commerce. With 343,000 or 1 out of 11 Virginia jobs attributed to port-related activity, the Port of Virginia is critical to expanding the Commonwealth's sustainable economic growth. The Virginia Port Authority is dedicated to ensuring the growth of state economic benefits from global trade and maritime commerce. The amount of cargo moving through The Port has nearly doubled in the last ten years, and is predicted to double in the next decade. Therefore, it is not surprising that the maritime industry is a dynamic source for numerous emerging job opportunities in a high growth, high demand, and economically vital sector of the Hampton Roads economy.

The introduction of Craney Island Eastward Expansion will generate over 54,000 jobs annually with wages of \$1.7 billion. These significant economic benefits come from three major sources: marine terminal design and construction, terminal and related transportation operations, and distribution center operations. Marine terminal construction and design will result in approximately 1,176 jobs, with the first construction jobs emerging in the summer of 2009. Terminal and related transportation operations will create more than 28,000 new port-related jobs emerging upon opening of the marine terminal, in 2017. Distribution Center (DC) operations will create almost 26,000 new positions, with the opening of Craney Island Marine Terminal (CIMT). The total impact of CIMT also includes the economic benefits generated by wages paid to construction contractors, port employees and/or equipment manufacturers.

Strategically situated for international trade and warehouse distribution, Virginia is home to retailers and leading distributors. In fact, Virginia has seen significant growth in international import distribution center business in recent years. Nearly 13 million square feet of new warehousing space has been added at more than 30 new distribution centers around the state. With the introduction of CIMT, tremendous opportunities exist to attract DC businesses to the Hampton Roads region.

The growth in international trade and goods movement has a direct connection to regional economic activity. Goods imported to Virginia require handling and processing by in-state transportation service providers, like customs brokers, warehouse workers, logistics managers, freight forwarders, stevedores, and truckers. Their wages represent an investment in the interdependent economy of Hampton Roads as a whole. The economic impacts of CIMT go beyond construction and port operations to impact dozens of different economic sectors. Moreover, these workers require support from mechanics, manufactures, and additional service providers. All play a critical role in efficient goods transportation to domestic markets and beyond. The introduction of Craney Island Marine Terminal (CIMT) represents a robust economic prospect for the future. The next articles take a look at a sample of the exciting career opportunities associated with the maritime industry.

Moving cargo on containerships speeds international trade through a world-wide supply chain. Behind this complex network is a growing workforce of skilled technicians, engineers, administrators, managers, logistics and maritime professionals. We begin our look at maritime jobs, exploring opportunities emerging from marine terminal operations.

STEVEDORE

Stevedores operate marine terminals and are charged with employing longshoremen to handle cargo. They also coordinate storage and transportation of cargo, facilitating the movement of port cargo onto trucks and trains.

Stevedores need to have a driver's license to pursue training for operating heavy vehicles (straddle carriers and forklifts) and machinery. A good level of general education and literacy are required to obtain heavy machinery licenses. Math skills are useful for basic calculating, understanding ship loading plans and operating lifting machinery.

Useful experience for stevedores includes any driving work, particularly heavy machinery or fork-lifts, or work in a warehouse. Previous work on a wharf or a ship is also useful.

MARINE SURVEYOR

Marine Surveyors provide specialized consultation within the maritime industry. They survey marine vessels and watercraft, such as ships, boats, tankers, and dredgers to understand the condition, construction, and damage of vessels, as well as the stowage and transportation of cargo. Required knowledge for this position is obtained from service as deck/engineering officers, supervising shipyard work, or field inspection with USCG or classification societies. Surveyors generally carry membership or accreditation with one or more marine surveying agencies.



MARITIME PILOT

Pilots are mariners who guide ships through congested waters, such as harbors. The pilot brings to the ship expertise in handling large vessels in confined waterways and expert local knowledge of the port. In Hampton Roads, an apprentice pilot trains for six years. Pilots must have a four year degree from a maritime college and a strong background in math.



THE ARTEMUS GROUP (AG)

offers Shipping and Maritime Training and Employment Assistance. AG's service is specifically designed for those seeking or advancing a career in the international trade and transport industry. AG also offers valuable training courses in:

- The Basics of International Shipping
- HazMat Transport 101
- HazMat Transport 102

Job placement services and financial assistance options are available. For more information contact AG 1-866-SHIP-101 or via email information@artemus.us



CUSTOMS BROKER

Custom brokers assist importers and exporters in meeting customs requirements regulating goods entering and leaving the U.S. Brokers submit required information and payments to the U.S. Customs and Border Patrol for their clients. Brokers must have expertise in a number of areas in-

cluding entry procedures, and the rates of duty and applicable taxes and fees for imported merchandise. To be eligible, you must be a United States citizen of at least 21 years old with good moral character, and not be a current Federal Government employee. To receive a brokerage license, applicants must pass the Customs License Examination (<http://www.cbp.gov/>).



LONGSHOREMAN

Longshoremen load and unload cargo from containerships. They are also responsible for lashing and unlashng containers, driving containers around the container yard, and crane operations. Shore labor is run through unions. The International Longshoreman's Association open up their books occasionally to new members based upon need. For information on employment opportunities with the International Longshoremen's Association (ILA) call the Hampton Roads Shipping Association Job Hotline: 757-628-2676.



PORT TRUCKER

Port truckers are responsible for transporting containers/cargo to and from marine terminals. Nationwide, the trucking industry needs 20,000 long-haul drivers to keep up with freight demands. See the side bar for information on the Virginia Maritime Association's trucker recruitment program.



THE VIRGINIA MARITIME ASSOCIATION (VMA)

Onland Transportation Committee has joined local truck companies to offer comprehensive Truck Driver Training to the Hampton Roads region.

Visit the Virginia Maritime Association website at <http://www.vamaritime.com/> to learn more about the VMA Driver Recruitment Program. For more information contact: Virginia Maritime Association (757) 622-2639.

The supply chain includes every effort involved in producing and delivering a final product or service. Supply chain management includes managing supply and demand, sourcing raw materials and parts, manufacturing and assembly, warehousing and inventory tracking, order entry and order management, distribution across all channels, and delivery to the customer. Supply chain management and logistics organizations provide a wide variety of career opportunities across a number of fields including: distribution, customer service, manufacturing, marketing, retail, transportation, warehousing and technology. Supply Chain Management courses are available from community colleges, universities, and specialized schools (see side bar – ODU Maritime Institute).

SUPPLY CHAIN ANALYST

Supply Chain Analysts work to understand, forecast, and enhance supply chain trends and processes. Analysts are charged with generating and assembling data, analyzing performance, and developing recommendations to support supply chain management. Strong quantitative, analytical, and computer skills and a familiarity with logistics planning concepts is helpful to acquiring a career in this field. A

bachelor's degree in a business-related field is typically required for analyst positions.

CONSULTANT

Consultants engage client organizations on strategies to enhance supply and logistic chain performance through business engineering, strategic planning, and information technology tools. Consultants must have critical reasoning skills to identify clients' problems, opportunities, and risks towards creating customer value, and improving competitive advantage. A bachelor's degree in a business-related field is typically required for consulting positions.



LOGISTICS MANAGERS

Logistics Managers typically manage distribution, transportation, and warehousing operations within logistics organization. The role of distribution managers within logistics may include transportation, stock control, warehousing, and ensuring structures are in place to supervise the flow of goods and materials. Logistics managers interact with parties throughout the supply chain, including suppli-

ers, manufacturers, retailers, and even customers. While their responsibilities vary between organizations, logistics managers will determine the most cost efficient means of managing the supply chain.

SUPPLY CHAIN SOFTWARE MANAGERS

Software managers manage components of distribution technology including warehouse operations systems, electronic communication and order-taking systems, support systems. They also design analytical tools to increase and measure productivity and develop decision support systems to analyze and optimize logistics and transportation systems.



LOGISTICS ENGINEERS

Logistics engineers direct and organize activities designed to supply subcontractors, management, and customers with logistics technology that ensures effective and cost-effective support concerned with manufacturing or servicing of products and systems. An engineer may perform operational analysis, process improvement, facili-

ty and capacity planning, and project management. Logistics engineers often have background in industrial engineering or other related engineering field.

WAREHOUSE WORKER

Warehouse workers accept, inventory, store, and deliver goods from a warehouse or distribution center. There are no specific entry requirements to become a warehouse worker. However, knowledge of warehouse procedures and stock control are helpful skills. The ability to operate a variety of machinery including forklifts is also beneficial to obtaining a warehouse position. Store handling experience, warehousing, truck driving, and forklift driving skills are useful.



The Old Dominion University Maritime Institute provides specialization for students in the maritime field, which includes shipping, ports and logistics management. The Maritime and Supply Chain Management (MSCM) major provides students with an integrated working knowledge of maritime operations and supply chain management.

A specialized concentration is integrated into both the existing Master of Business Administration (MBA) and Master of Public Administration (MPA) program, and is also available as electives in the Master of Arts in Economics.

ODU is the second university in the U.S. to offer an undergraduate maritime business major. For more information contact:

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Community Outreach Update



On Saturday, October 11, 2008 the Green Acres Presbyterian Church Men's Group located in Portsmouth heard a presentation on the Craney Island Eastward Expansion during their monthly meeting. The presentation communicated project scope, costs, impacts, benefits, and schedule. As a number of retired engineers and maritime professionals participate in the group, the presentation covered technical aspects associated with dike development. If your group is interested in hearing a presentation on the Craney Island Eastward Expansion please contact us at 757-628-8222 or ciconnection@craneyisland.info.

Project Update



Sonic Drilling at CIEE Site

The U.S. Army Corps of Engineers, in cooperation with the Environmental Protection Agency (EPA), is conducting additional sampling and testing on sediments proposed to be dredged and placed in EPA's approved offshore placement area. The sampling and testing procedures are commonly known as Tier 3 Testing. As with previous sediment and foundation investigation completed for the CIEE specialized equipment, suitable for use over water, is used. In this case, a relatively new exploration technique known as "Sonic" drilling was used successfully (see image above). The drill pipe and sampler are advanced by vibration into the sediments. Samples are collected within lexan tubes and preserved until they can be opened and prepared for testing.

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