



**City Council Member**



**Civil Engineer**



### **What is the job of a Civil Engineer?**

Civil Engineers use creativity, math and science to design and maintain our infrastructure such as transportation networks, structures, and water and wastewater systems. Civil Engineers are good problem solvers, who can assess problems and apply science, mathematics and experience to arrive at practical solutions. There are a number of sub-disciplines within the field of civil engineering; these include transportation, geotechnical, structural, water resources and environmental engineering.

### **What can a Civil Engineer do in response to climate change?**

Civil engineers can use their expertise to help make coastal areas more resilient to sea level rise. For example, transportation engineers plan and design highways, railways, and traffic control systems.

Geotechnical engineers determine the suitability of rock and soil to safely support buildings, dams and other structures.

Structural engineers assure the structural stability of bridges, tunnels and buildings.

Water resource engineers develop water supplies for residential, agricultural and industrial use and protect communities from flooding. Environmental Engineers design treatment facilities for water and wastewater and assure that solid and hazardous waste and air pollution is managed in a way to prevent risks to public health and the environment.

### **What is the job of a City Councilperson?**

A city Councilperson is a person who is elected to office within a certain area of a city and helps make decisions that impact the city. Generally, he or she is part of a council ranging from a few individuals to dozens of elected officials, depending on the location and size of the city or county. While serving on the council, a councilperson works to establish the parameters of local government. Usually, a councilperson acts as a member of the legislative branch, creating laws and mandates that need to be approved by the city's mayor. The members of the body both introduce and vote on certain aspects of a city's needs and how to pay for them.

### **What can a City Councilperson do in response to climate change?**

Members of city council can write legislation and set policies that helps reduce the amount of greenhouse gas emissions, and how infrastructure (e.g., buildings, roads, bridges, public transportation, and energy distribution) should be built in the future or retrofitted in response to climate change.



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**County Commissioner**



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**What is the job of a County Commissioner?**

The Board of County Commissioners develops policy for the management of Hillsborough County and provides direction to the County Administrator on any programs for the improvement of the county and the welfare of its residents. The Board approves the county's operating and capital budgets and the county's capital improvement program. It serves as the Environmental Protection Commission and individual Commissioners serve on various other boards, authorities, and commissions.

**What can a County Commissioner do in response to climate change?**

Members of the County Commission can take official action in response to climate change by the adoption of ordinances, resolutions, or motions that help reduce the amount of greenhouse gas emissions, and how infrastructure (e.g., buildings, roads, bridges, public transportation, and energy distribution) should be built in the future or retrofitted in response to climate change.



**Homeowner**



**Homeowner**



**What is the role of a homeowner?**

Homeowners are crucial stakeholders for communities and neighborhoods. As the main contributing members of local economies, the role of homeowners in a specific location can influence many other sectors beyond the economy including, the health and safety of a neighborhood, local politics and policy community beautification, local events and many more, They also largely impact the schools with funding from tax monies, and demographic matriculation.

**What can a Homeowner can do in response to climate change?**

Homeowners within the described areas of flood zones are often faced with the expensive undertaking of flood insurance on their property, this can be as high as \$7,500 for a small ranch house. Some homeowners may also see their home values depreciate greatly due to the flood zones, and the increased cost to live in those areas (near beaches, rivers, bays, and low lying areas along the coasts). Homeowners, as members of the voting public, have a voice when it comes to enacting polices by local government to continue to develop these areas that are at risk to flooding. They also have the choice when it comes to deciding where they want to live. Making informed choices about the their future can lead to finical security and wise investment choices.

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**Hospital Administrator**



**Marine Scientist**



### **What is the role of a Marine Scientist?**

Marine scientists may be employed by government agencies, private companies and industry organizations, and the jobs they do may differ according to where they work. Some scientists may analyze marine water samples for contaminants. Others may use marine plants to create products for use. Still other scientists may work for zoos or aquariums, monitoring marine animals and conducting studies. Marine scientists may also be employed by universities and other institutions to perform research.

### **What can a Marine Scientist do in response to climate change?**

Increased CO<sub>2</sub> levels and temperatures of our oceans are negatively impacting the living organisms within our seas. Coral bleaching, ocean acidification, and harmful algal blooms continue to impact vital members of oceanic ecosystems. The threat of increase in severe weather events such as hurricanes, storm surge, and increased rainfall area also contributing to the changing of our oceans. There is overwhelming evidence that our sea levels are rising, which is making the job of a marine scientist important for understanding the future of our oceans' organisms and coastal populations. As marine scientist, our aim is to assess current understanding of how a changing climate associated with global warming may affect ocean ecosystems.

### **What is the job of a Hospital Administrator?**

Hospital Administrators manage all non-physician administrative and direct patient care operations. The Administrator will establish hospital goals, objectives, policies, and procedures; ensure the agency achieves these goals and its mission to provide patient treatment services in the least restrictive setting to support personal recovery and quality of life. This includes Hospital Facility Planning and Development; and administrating the hospital's Fire and Life Safety program and the hospital Building Access Program.

### **What can a Hospital Administrator do in response to climate change?**

Hospital Administrators can make plans to mitigate the impact of climate change such as extreme local weathers. These include:

- Keep emergency rooms away from flooding areas.
- Ensure generation of electricity and water supplies in severe weather conditions.
- Plan to make sure that doctors, nurses and patients can get to health care facilities in an emergency.
- Build or rebuild hospitals and other facilities so that they can withstand extreme weather events.



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**Park Superintendent**



**Director of the Port of  
Tampa**



### **What is the job of the Director of the Port of Tampa?**

The main duties of the Director include overseeing the Environmental Permitting and Compliance program for Port operations and development, keeping leadership abreast of changes in Environmental policy or regulations that may affect the Port, and assisting a diverse group of tenants with their Environmental issues. The Director also oversees the management of activities on Sovereignty Lands aka “State Lands” in Hillsborough County, including permitting, compliance, rule writing/interpretation, and interagency coordination.

### **What can the Director of the Port of Tampa do in response to climate change?**

The Port strategically plans for and adapts to our changing world, changes in the needs of our customers, changes in the global economy, and changes in our Environment. The Port is strongly committed to Environmental Stewardship and works with our regional partner agencies and the public and private sectors to continue to be the largest economic engine in the region and grow our economic impact from more than \$15 billion and over 80,000 direct, indirect and related jobs we represent annually.

### **What is the job of a Park Superintendent?**

Park superintendents participate in the planning, development, construction, and operations of parks and recreational activities, and coordinate the maintenance and repair of parks and recreation areas, equipment, and facilities. One of their major duties is to ensure safety of visitors as well as for animals and plants in the park. Also, they supervise and train staff, prepare and monitor the annual operating budget for the parks and facilities, provide technical assistance on proposed changes or improvements to park facilities, and develop and recommend rules and guidelines for the operation of park and community facilities.

### **What can a Park Superintendent do in response to climate change?**

Park superintendents can use their knowledge to instruct their staff, visitors, and community members about climate change and its impact. They use their knowledge and expertise about climate change and parks to plan mitigation strategies and adaptation responses to local environmental changes. In addition, they provide examples of adaptation and mitigation actions.

Park superintendents participate in the implementation of initiatives to gain new information and engage the public in climate change activities.



**Tourist**



### **What is the “job” of tourists?**

(1) To refresh their emotions, through a change of scenery, and low-stress recreational activities, such as walking, reading & fishing, or simply doing as little as possible, such as sleeping, eating, laying on a bed, couch or beach, and (2) learning about, and experiencing, the location, for instance by walking, driving, visiting local sites, talking with locals, and participating in local culture and activities.

### **What can tourists do in response to climate change?**

Climate change can have an impact on tourists while they are vacationing, for instance through unanticipated weather events, heat waves, hurricanes, etc. It can also cause damage to the tourism areas including natural sights, cultural institutions like museums, zoos, and aquariums. Tourists can react by choosing to vacation where actions are being taken to mitigate the effects of climate change, by reduction the carbon footprint of their travel, or by engaging in civic action to mitigating climate change, either while on vacation, or at home.