



GOOSE CREEK CONSOLIDATED INDEPENDENT SCHOOL DISTRICT
CAREER AND TECHNICAL EDUCATION

Job Shadowing Teacher Questionnaire

Teacher Name: Bess Elmore

Campus: RSS

Related Course:

Principles of Biomedical Science

Company Information

Business Name: Houston Methodist Cypress Hospital

Business Address: 24500 Northwest Fwy

Business Phone: 713-790-3333

Employee Information

Person Observed: Daniela del Campo

Job Title: Project Manager

Job Shadowing Information

Date: 7-28-25

Arrival Time: 11:00 am

Departure Time: 5:00 pm

1. What is the main purpose of this business?

Houston Methodist uses advanced medical technology and patient-focused care to provide the highest level of healthcare in the Houston area.

2. What does this department do within the company? (If appropriate)

AI innovations and new technology helps enhance the accuracy, speed, and quality of patient care when using things like "Alexa", robots, and imaging technology.

3. What is the business's responsibilities?

Their responsibilities include promoting health, early diagnosis, patient safety, and clean and safe facilities.

4. What is a typical day for a person in this occupation? Reviewing patient data, interdisciplinary meetings, diagnostic procedures, monitoring, case Meetings, research, cross-team collaboration, follow-ups
5. What does the person like most and least about his/her job? Houston Methodist is “patient and people obsessed.” The administration of the hospital system make it a top goal to focus not only on patient care as a whole but also the overall wellness of their employees.
6. What other people does he/she work with in the organization, departments, etc.? Many hospital workers work in interdisciplinary teams with members from various departments such as lab, OR, pharmacy, internal medicine, imagine, endoscopy, IT, etc.
7. Would this person recommend others to choose this career field? Yes
Describe the amount and level of basic skills and knowledge needed in this position and tell how someone in this position uses them?
8. Reading Reading is required to read patient charts and data regarding diagnosis and treatment.
9. Writing Moderate to high writing is required, mostly in a technical format. Types of writing in the hospital Include recording patient history, safety reports, grant proposals, updating patient statuses, prescriptions or orders, etc.
10. Mathematics Low to moderate math is required, lower levels will not need it as much as those in pharmacy, nursing and radiology when mixing solutions, calculating doses, infusion rates, and BMI.

11. Listening

High level of listening required for understanding patient needs, following instructions, collaborating and responding to emergencies.

12. Speaking

High level of speaking is required for conveying medical information, instructing patients or colleagues, Patient education and advocacy.

What technical skills are necessary to perform this job well and how are they used?

13. Using computers

Computer skills are required for maintaining health records, imaging, diagnostics, artificial Intelligence, telemedicine, and lab testing

14. Operating office machines (such as phones, fax machines, and copiers)

These skills are required for interpersonal communication in the hospital and with other healthcare providers in the network.

Which of the following problem-solving skills are needed and how are they applied?

15. Organizing and planning

Hospital workers will need these skills to keep track of medications, treatments, multiple patients, materials, and programs.

16. Interpreting and communicating information

Data from lab tests, imaging, EKGs, and vital signs must be interpreted and communicated. Medical jargon must also be interpreted and successfully communicated to the patient in lay terms.

17. Thinking creatively

This skills is required for when treatments are very complex, rare diseases are found, patients need multi-faceted support, and research is conducted using innovative ideas.

18. Making decisions

Decisions must be made often when considering patient safety, choosing tests based on symptoms, prioritizing tasks, and allocating resources.

19. Analyzing problems

Analysis occurs when looking at test results, patient history, safety concerns, equipment failure, or unexpected events.

What interpersonal (or “people”) skills are needed, and how are they used?

20. Serving customers

Patient care is extremely people-centered and serving is presented in situations such as comforting patients, supporting families, active listening, maintaining ethical standards, and deescalating difficult or scared patients.

21. Participating as a team member

Team member roles appear in the hospital during emergency situations, surgical operations, patient transfers, and research.

22. Teaching

Teaching is used occasionally when educating patients, training new staff, or introducing new protocols or equipment.

23. Leading

Leading is required during emergencies or codes, as a shift manager, running a research team, or managing patient conflicts or crises.

24. Resolving conflict

Resolving conflict skills may be required if there is a dispute between a patient and their family members, coworkers, or departments. These disputes may be caused by stress, language barriers, ethics, or differences in culture.

25. Working with cultural diversity

In the Houston area, there is a multitude of cultures present and this can be seen in both the patients cared for at the hospital and the people employed at Methodist.

Required education and training

26. What education and training is required before starting work at the company and what new skills has she or he had to learn since then?

A bachelor's degree and even a master's may be required for various positions, doctorates are available as well. Once hired by the hospital, there is an abundance of training that is required on topics such as ethics, safety, software/technology, and soft skills.

Trends

27. How might this job change in the next five years, and will current technology advances threaten this job?

I was able to see how technology and advancements in AI have changed these healthcare jobs and they will continue to evolve over the next 5 years. There will be greater use of technology in automation, home-care, and telehealth.

28. The next ten?

In the next 10 years, the presence of artificial intelligence and robots will increase. Healthcare will become more efficient, remote, or instantaneous, in cases that apply. Predictions and diagnostics will improve with these new advancements with the goal of patient care in mind. However, the empathy, ethics, and compassion that humans have cannot be replaced.

Application

29. What will you do differently in the classroom as a result of this experience? Give a specific example of a lesson that will change/ be developed as a result of this experience.

Given what I have learned from this experience, I have a greater understanding of technological advancements and how artificial intelligence is incorporated into the world of healthcare. I am looking forward to using this experience to improve my lessons in the classroom.

In Unit 2 and 3 of PLTW-PBS, we study cases in the hospital and clinical settings. For example, there is a disease outbreak in the hospital and it needs to be identified, diagnosed, treated, and removed from the hospital. Many of the technology operations I saw at Houston Methodist can help expedite these processes such as the BioButtons used on patients to monitor symptoms. AI can help predict how long a case will last which can help with identification. Imaging machines can capture problems almost instantaneously.

After sharing some of my experiences with my students during this lesson, I can further challenge them to apply these new technological advances to other cases or have them create their own versions of AI or technology that would further help solve our outbreak case.