Example of Physicist Job Description

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Our company is searching for experienced candidates for the position of physicist. To join our growing team, please review the list of responsibilities and qualifications.

Responsibilities for physicist

- Clinical application of therapy equipment (provide medical physics consultations for patient treatment planning
- Oversee department quality assurance programs and radiation safety
- Assists the Director of Medical Physics with determining technical specifications for selection of new equipment, supervising the installation of new equipment, performing acceptance testing upon completed installation, and measuring performance parameters to ensure the accurate clinical implementation of new equipment
- Works collaboratively with the Director of Medical Physics to assess potential and confirmed new clinical sites to determine the current state of the center(s) and appropriate equipment and process improvements
- Eclipse and Fastplan planning
- Performs some 3D conformal, VMAT, IMRT and SBRT treatment planning
- Acts in compliance with federal, state, and Joint Commission standards
- Provide instruction to and act as a resource for Radiation Therapists, Radiation Oncologists, Nurses, Dosimetrists, as needed for education of new procedures, reinforcing with annual competency to provide treatment safety
- Promote and support respectful workplace culture, strive to enhance communication across treatment team
- Promote ethical business practice, transparency, compliance in all interactions inside and outside the organization

Qualifications for physicist

- Considerable knowledge of synchrotron radiation, x-ray optics, detectors and precision instrumentation
- Ability to integrate and analyze information from multiple and diverse sources, to identify technical problems, to develop solutions and to communicate work direction and strategies
- The level of scientific knowledge and sophistication required is normally associated with a Ph.D
- Experience with simulation and modeling tools, GATE, Simulink
- Medical image reconstruction knowledge relevant to the position, , PET, SPECT, CT
- Demonstrable clear oral communication, well-organized documentation skills