

<b>JOB DESCRIPTION</b>	
<b>ORGANIZATION</b>	IISC MEDICAL SCHOOL FOUNDATION
<b>POSITION</b>	SENIOR TECHNOLOGIST - RADIOTHERAPY
<b>REPORTING TO</b>	HEAD-RADIATION ONCOLOGY, RSO
<b>Key areas of responsibility:</b>	The Senior Technologist - Radiotherapy is responsible for the safe, accurate, and efficient delivery of radiation therapy procedures, supporting clinical precision, patient safety, regulatory compliance, and seamless integration of radiotherapy workflows within a digitally enabled oncology service. Ensures high-quality execution of radiotherapy procedures, adherence to prescribed treatment plans, patient support, and compliance with radiation safety, quality, and documentation standards.
<b>Overall Responsibilities:</b>	Deliver radiation therapy treatments accurately as per approved treatment plans under the supervision of radiation oncologists and medical physicists.
	Prepare, position, and immobilize patients precisely using prescribed immobilization devices to ensure reproducibility and treatment accuracy.
	Operate radiotherapy equipment (LINAC, MR LINAC, Gamma Knife, brachytherapy units, simulators as applicable) in accordance with established protocols and safety guidelines.
	Verify patient identity, treatment parameters, and setup prior to each treatment session to prevent errors.
	Monitor patients during treatment delivery and respond promptly to patient discomfort, reactions, or emergencies.
	Coordinate closely with radiation oncologists, medical physicists, nurses, and dosimetrists to ensure smooth treatment workflows.
	Assist in CT simulation, treatment planning preparation, and image-guided radiotherapy (IGRT) processes as required.
	Support training, supervision, and mentoring of junior radiotherapy technologists and trainees.
	Coordinate with biomedical engineering and vendors for routine maintenance, quality assurance, and troubleshooting of radiotherapy equipment.
	Ensure accurate electronic documentation of treatment delivery, verification records, and patient instructions within the HIS.
Support implementation and adherence to radiation safety protocols, emergency procedures, and incident reporting systems.	

	Participate in quality assurance programs, audits, and accreditation-related activities.
	Assist in maintaining statutory records and compliance documentation as per AERB and hospital requirements.
	Provide patients with standardized pre-treatment and post-treatment instructions and reinforce care plans as advised by the clinical team.
<b>Key Performance Indicators - Measurable Deliverables</b>	Accuracy and compliance with prescribed treatment plans.
	Percentage of treatments delivered without deviations or incidents.
	Adherence to treatment schedules and patient throughput targets.
	Reduction in treatment delays, repeats, or setup errors.
	Patient satisfaction and feedback related to radiotherapy services.
	Timeliness and completeness of digital treatment documentation.
<b>Essential Qualification :</b>	Diploma or Bachelor's Degree in Radiotherapy Technology / Radiation Therapy Technology from an AERB recognized institution
<b>Professional Experience :</b>	Minimum 10–15 years of experience in Radiotherapy services in a tertiary care or comprehensive cancer centre, with proven mandatory experience in commissioning, installation, acceptance testing, beam data acquisition, system validation, safety checks of radiotherapy equipment.
<b>Strong Skills :</b>	Clinical precision, patient-centric approach, communication, teamwork, attention to detail, problem-solving, adaptability, stress management, digital proficiency, and strong safety orientation.
<b>Industry Preference :</b>	Healthcare
<b>Reporting structure :</b>	Head – Radiation Oncology, RSO
<b>Reportee</b>	Junior Radiotherapy Technologists (functional supervision)
<b>Key Interaction - Internal</b>	Radiation Oncologists, Medical Physicists, Nursing Staff, Biomedical Engineering, Quality Team, IT/HIS Team
<b>Key Interaction - External</b>	Patients and Caregivers, Equipment Service Engineers, Regulatory Inspectors
<b>Knowledge and Technical competencies/Skills:</b>	Hands-on knowledge of installation, commissioning, acceptance testing, validation, and clinical commissioning of radiotherapy equipment (LINAC, brachytherapy systems, simulators, ancillary

	systems).
	Proficiency in operating radiotherapy equipment including LINACs, MR LINAC, Gamma Knife, simulators, and brachytherapy systems.
	Strong understanding of radiation physics principles, dose delivery, and patient positioning techniques.
	Knowledge of radiation safety regulations, AERB guidelines, and emergency response procedures.
	Functional proficiency in Oncology Information Systems (OIS), HIS, and digital verification and record-and-verify systems.
	Ability to follow complex treatment protocols accurately and consistently.
	Commitment to continuous quality improvement, patient safety, and ethical clinical practice.
<b>Salary Structure</b>	Salary to commensurate as per industry standards

### **GENERAL CONDITIONS**

1. The nature of the employment will be contractual during the project phase and is subject to annual review and renewal. However, the engagement is terminable from either side without any reasons but with one month notice or salary in lieu thereof. The decision of the IMSF in this regard shall be final and binding on the candidate.
2. No accommodation will be provided.
3. The candidates have to appear in the selection process at their own cost.

**Mode of Selection:** Candidates who are desirous to be considered may submit the CV and cover letter highlighting the qualifications and experience to [office@iiscmedicalschoolfoundation.org](mailto:office@iiscmedicalschoolfoundation.org) on or before **27/03/2026** with the subject line: “**Application for the post of Senior Technologist-Radiotherapy**”. The eligible applicants will be called for an interview. Applications received after the deadline will not be considered for selection.