

Fellowship Profile

IAEA PROGRAMS
at Argonne National Laboratory



CAREERS TRAINING FELLOWSHIPS NOMINATIONS

Dosimetry and Quality Assurance for Advanced Radiation Therapy

Training Summary:

I am a medical physicist working at Vinmec Central Park International Hospital, which is in Ho Chi Minh City, Vietnam. I helped construct the radiation therapy department from the very beginning. This included creating device selection, shielding calculation, design, commissioning, clinical procedure, treatment planning and much more. In addition, I contributed to building the first official education program for medical physicists in Vietnam with the support of the International Atomic Energy Agency (IAEA). My objective is to strengthen the medical physicist field in dosimetry and quality assurance in radiation therapy.



I would like to acknowledge Professor Lei Xing and colleagues for supervising me during my 3 month training at the Stanford Cancer Center. I took part in quality assurance activities of the radiotherapy center, including many measurements and tests for mechanical movement, absolute and relative dosimetry, MLC quality assurance, imaging device quality assurance, and patient quality assurance. The training helped me improve my skills in quality assurance and dosimetry in the field of radiation therapy.

What's Next?

The training provided me some ideas and skills to do QA more efficiently. There are some corrections in the QA procedure that I need to implement at my home institute as a result of my new training. This includes improvements in integrated imaging device quality assurance, MLC quality assurance, and patient specific quality assurance. The training also explained small field dosimetry with diode and film, which is a subject I have great interest in, and will be useful for me to conduct further research soon.

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