
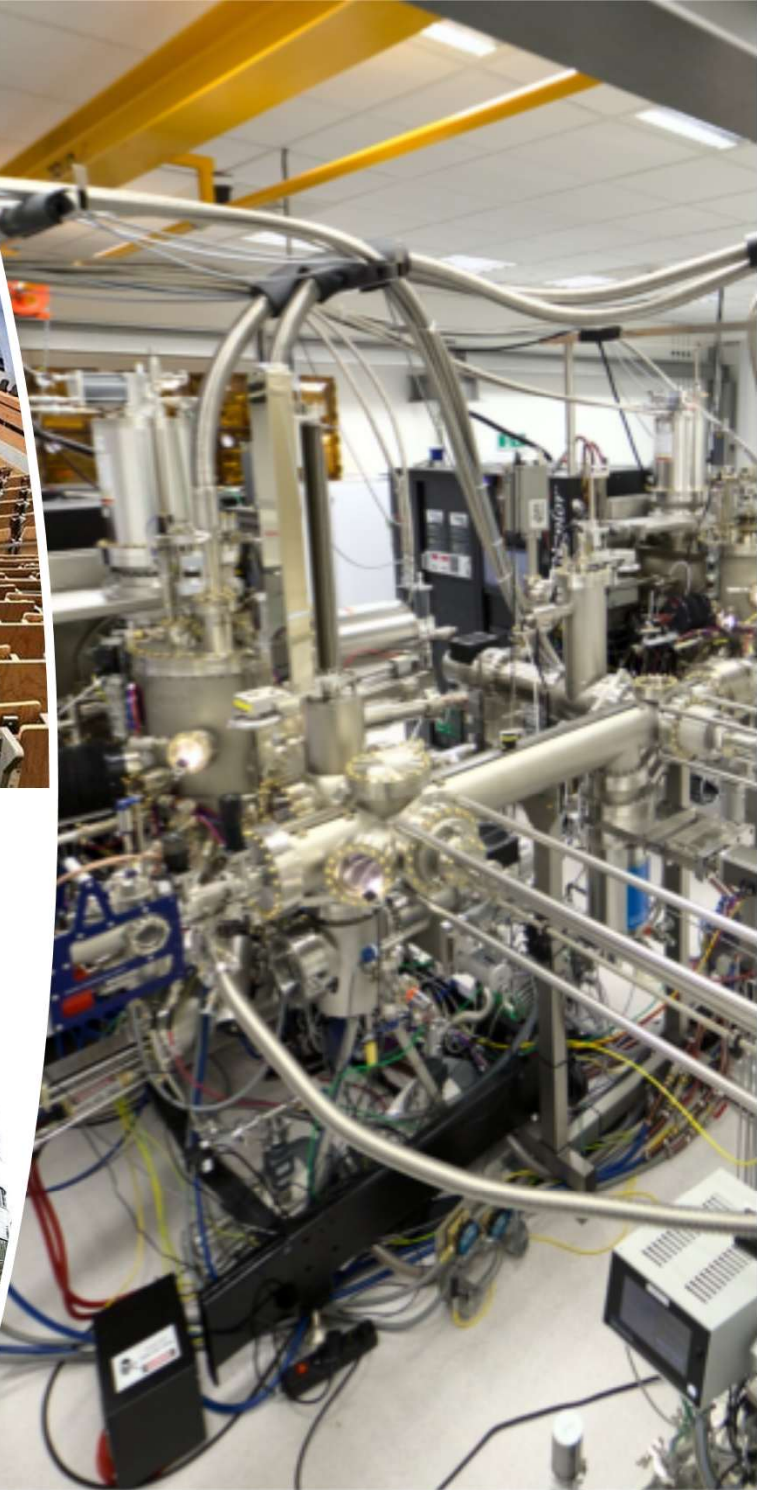
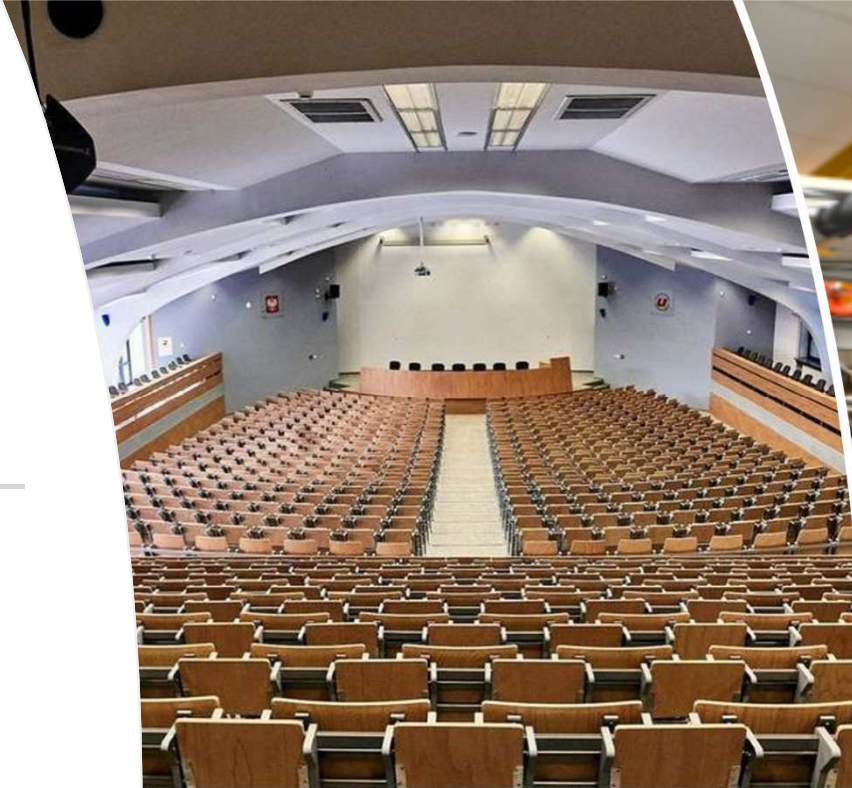


There is still much to be done –
opportunities for personal development
and a career in radiological protection from
a personal perspective.



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University of Lodz, Poland

**My career in
radiation
protection –
from basic
science to
applications.**



**ual growth chamber GENxplor MBE system
ors, semiconductor/ferromagnet and semic**

Medical exposure of the population

RADIATION PHYSICS

DOSIMETRY

MEDICINE AND MEDICAL STATISTICS

PUBLIC ADMINISTRATION

PROJECT MANAGEMENT

COLLABORATION – NACIONAL AND INTERNATIONAL

Some facts about medical exposure

- Ionising radiation is a recognised carcinogen.
- Medical applications are the largest source of exposure in developed countries.
- Patients have the right to reliable and honest information about radiation risks, as do workers who use radiation.
- The informed and responsible use of radiation in medicine is extremely important.
- Many exposures are unnecessary and unoptimized.
- Exposure of children and pregnant women.



Radiation protection in medicine:

- Protection of the population,
- Protection of patients,
- Protection of staff,
- X-ray equipment:
 - diagnostics,
 - therapy,
 - nuclear medicine,
- Legislation,
- ICRP, IAEA, UNSCEAR, etc.

Challenges

- Modern technologies (diagnostics and therapy).
- Better, safer and optimised procedures.
- Identifying and preventing the delayed effects of radiation exposure.
- Quality control of radiological equipment.
- Education, Research and Development.



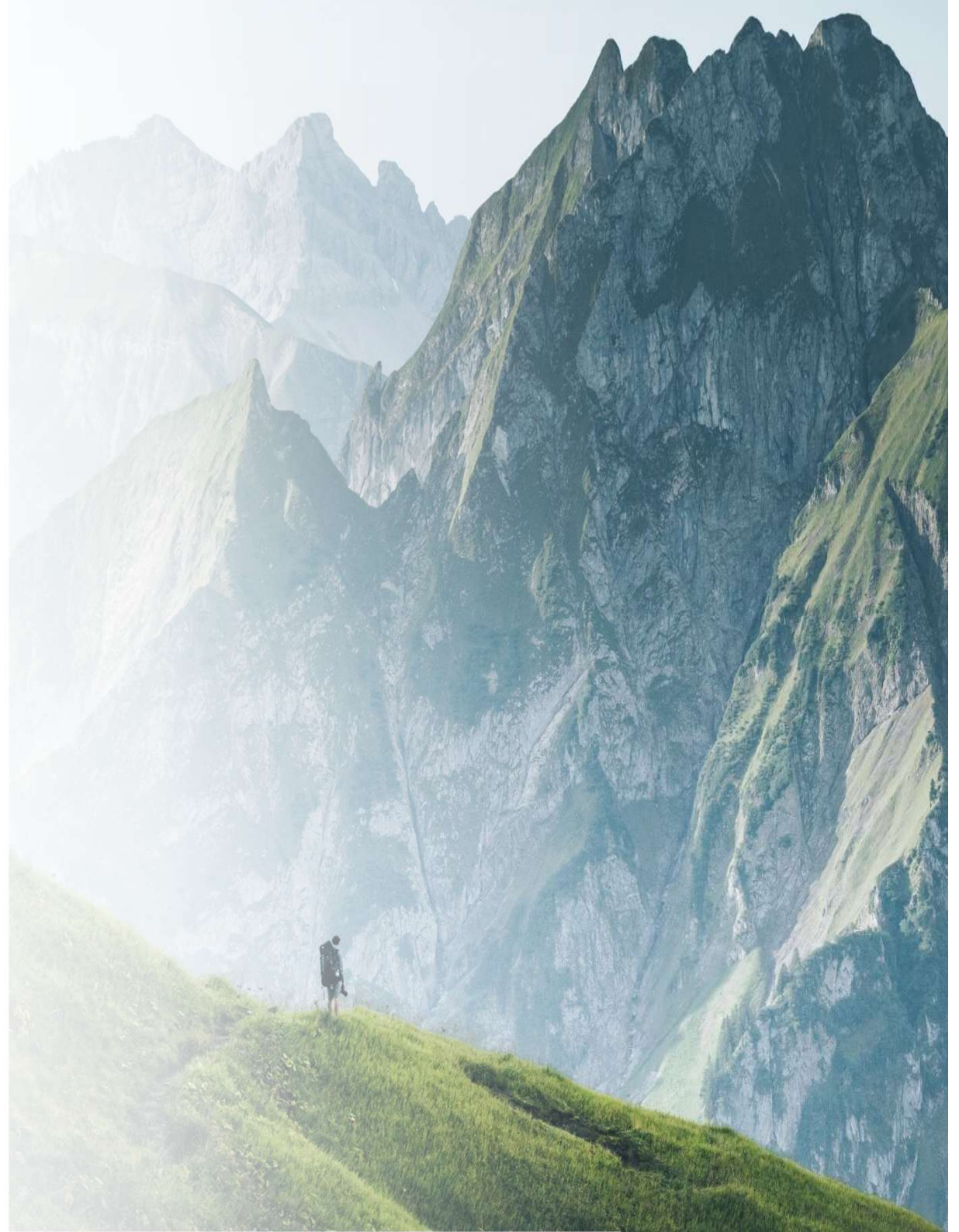
- Project for ICRP Task Group 116 Mentees 2023/2024

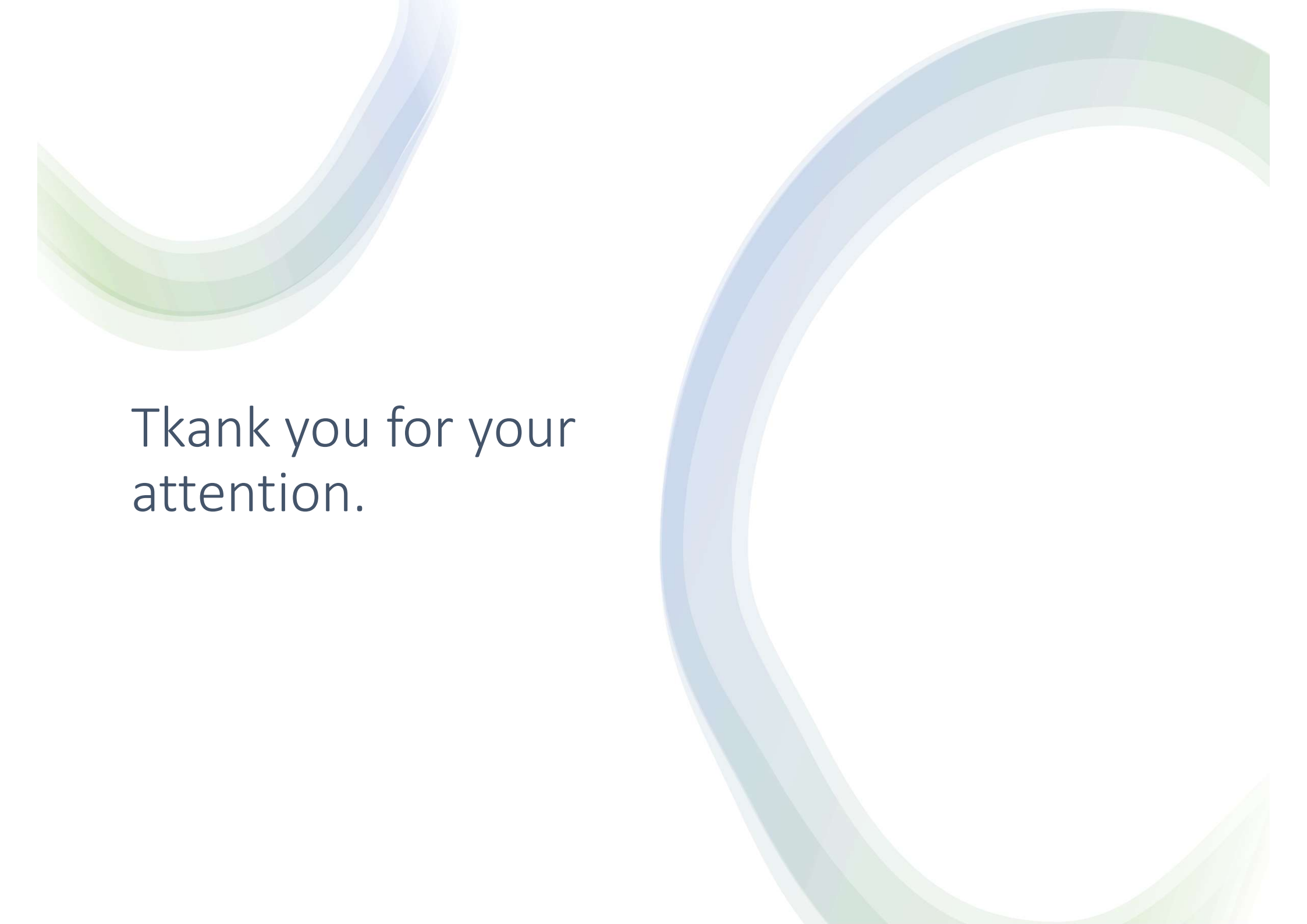
Optimisation of radiological protection aspects of imaging in radiotherapy

- *Development of nationwide guidelines for the use of cone beam tomography (CBCT) in image-guided radiotherapy.*



Is it an
attractive
career path?



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Thank you for your
attention.