



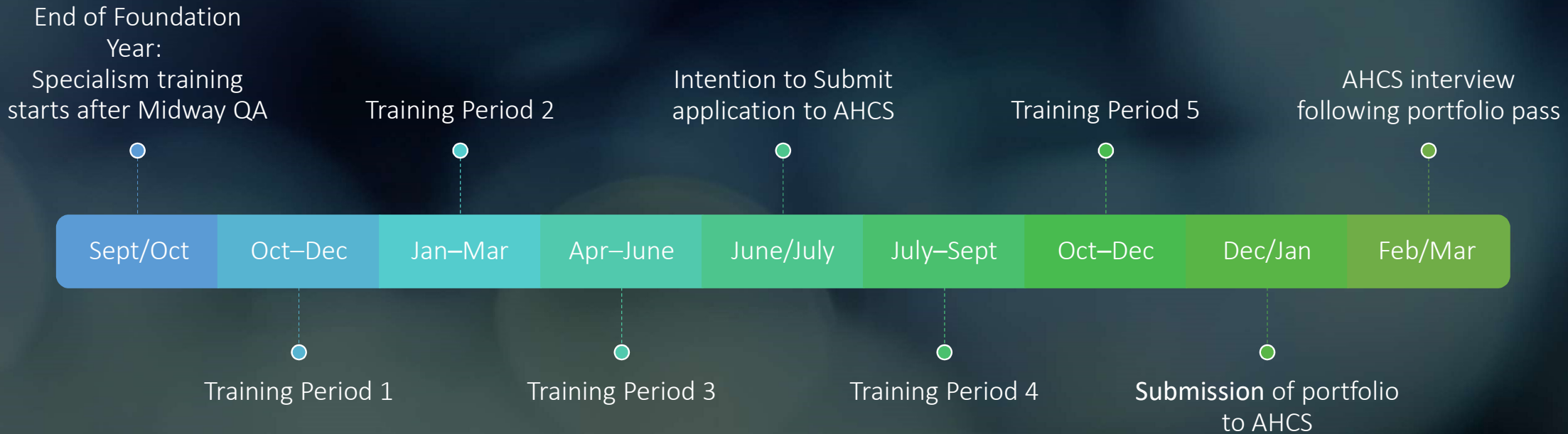
# Experience as a Medical Physics Specialism Trainee

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SMPCETS Open Day 2022

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# Specialism Training Timeline



# Specialism Training

- Main Clinical Engineering specialisms:
  - Design & Development
  - Clinical Measurement
  - Device Risk Management & Governance
  - Rehabilitation Engineering
- Main Medical Physics specialisms:
  - Nuclear Medicine
  - Radiotherapy
  - Diagnostic Radiology/Radiation Protection
  - MRI



# Specialism Training – Personal Experience

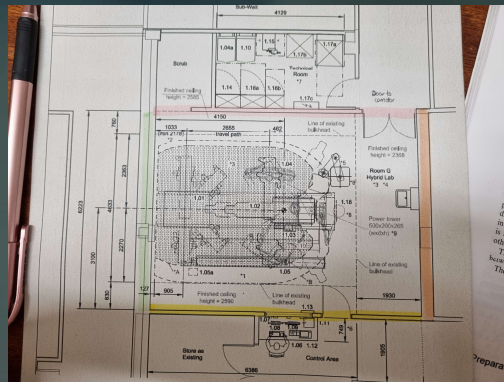


Lots of equipment testing!

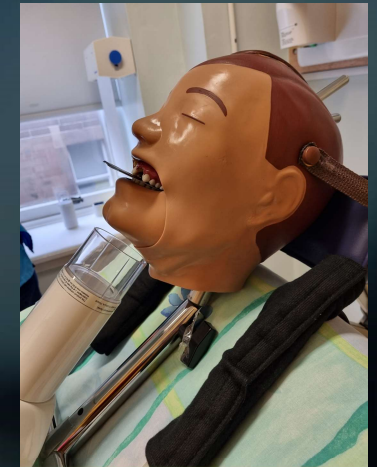


Service development and image optimisation projects

Shielding and room design projects



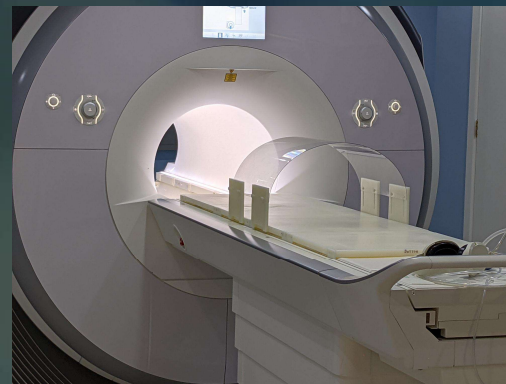
...and lots more!



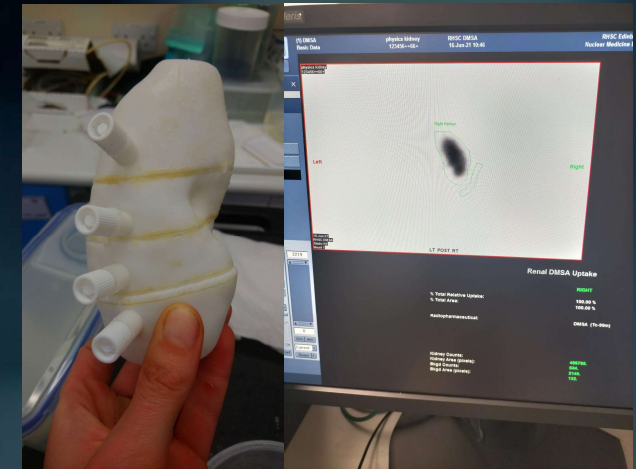
# Innovation Project



Creation of a transfer trolley – improving care for patients on life support

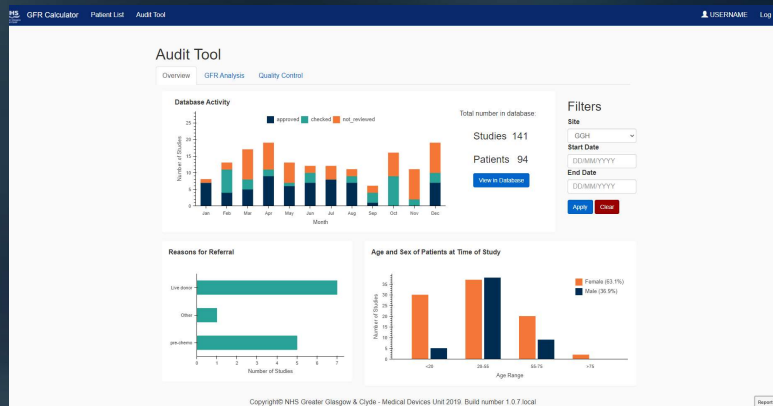


MRI in prostate radiotherapy treatment planning – creation of flat-top couch and coil bridge



3D printing of kidney models for use explaining surgery and Nuclear Medicine scan optimisation

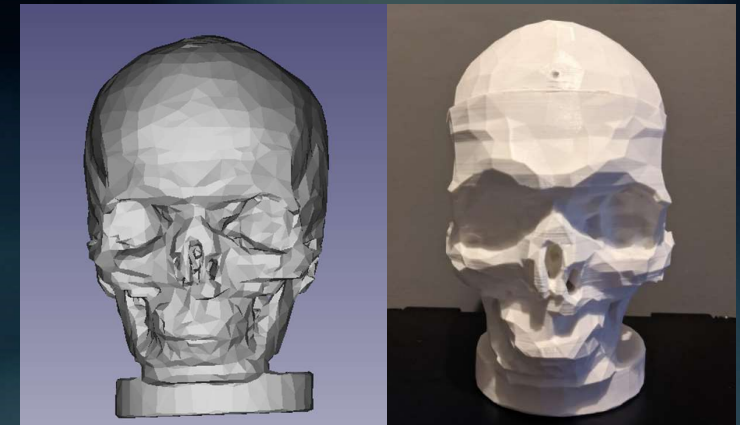
# Innovation Project



Creation of an audit tool for an online GFR calculator



Characterising Havar foil waste from a medical cyclotron



Design and production of an anthropomorphic head phantom for MRI



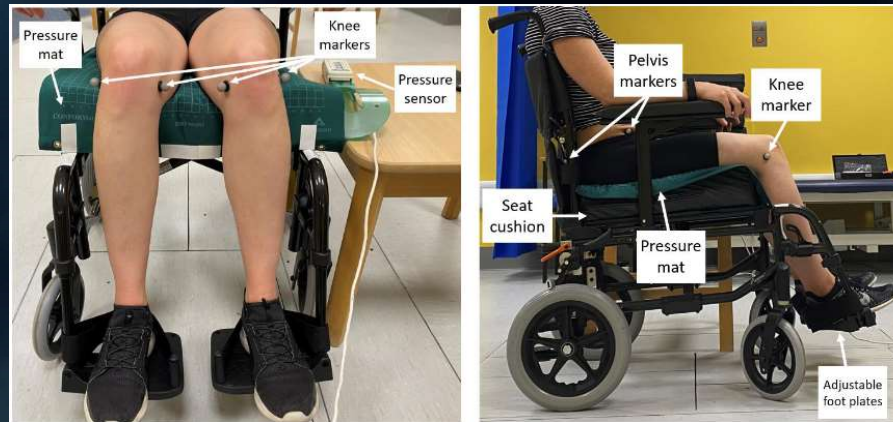
# Innovation Project

Deformable image registration for Radiotherapy treatment planning

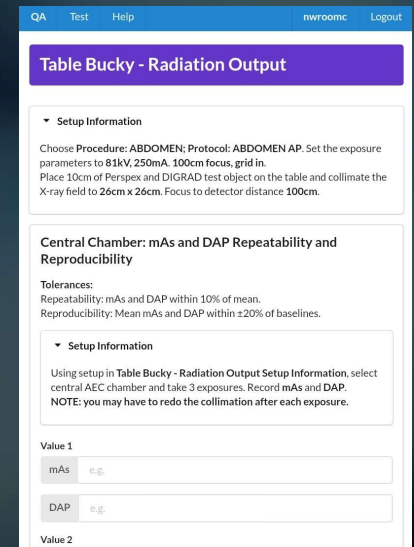


[1]

Planning techniques for lung SABR



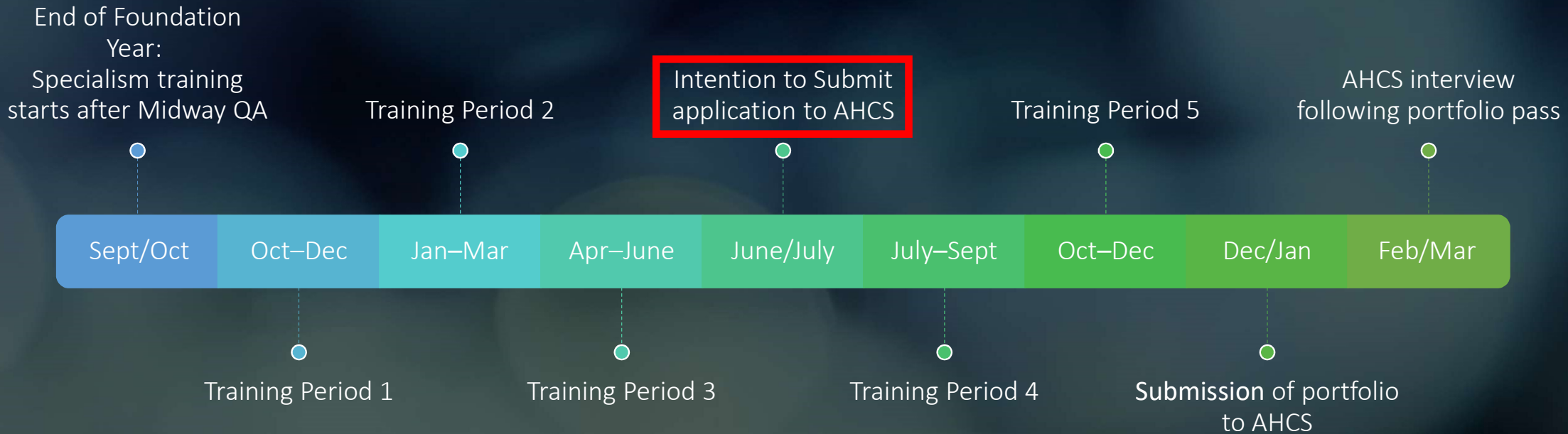
Effect of seat cushion design on position and posture of wheelchair users



Development of an online quality assurance platform for Diagnostic Radiology

[1] Bortfeld T. IMRT: a review and preview. Phys Med Biol. 2006 Jul 7;51(13):R363-79.

# Specialism Training Timeline

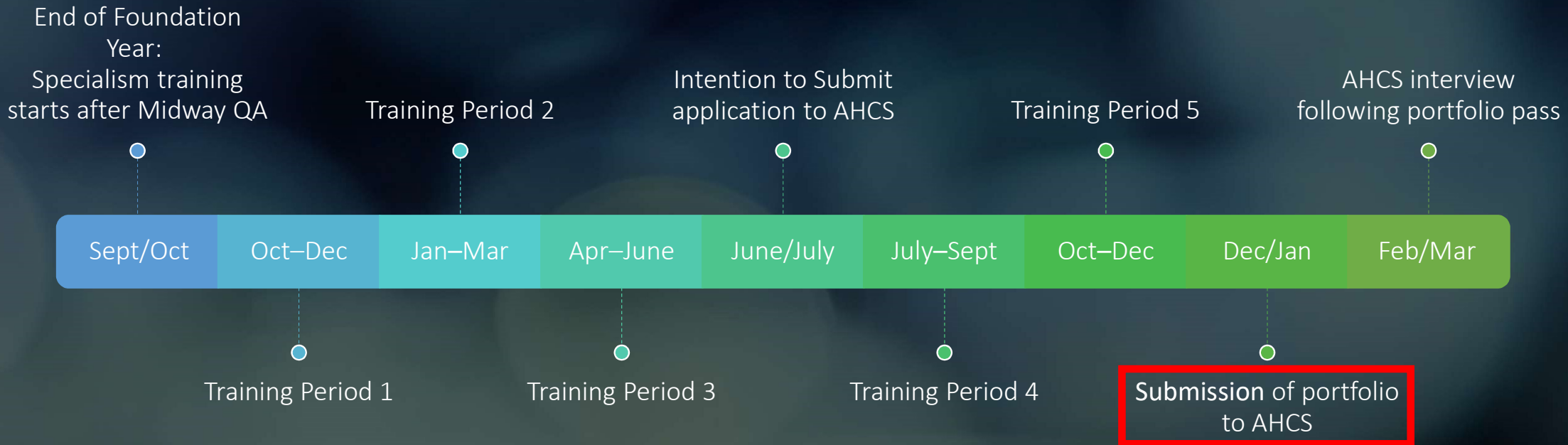




# Intention to Submit Application

- Notifies the AHCS that you plan to submit a portfolio of evidence to show Equivalence to STP within 6 months
- Requires two professional references to support your application, usually your training co-ordinator and specialism supervisor
- Personal statement consisting of a summary of the training scheme (provided) and details of your experience which qualifies you to apply for Equivalence to STP
- Following successful Intention to Submit application, the AHCS will send out the date your portfolio must be submitted by

# Specialism Training Timeline



# Portfolio Submission

## GSP Domains

Domain 1:  
Professional  
Practice

Domain 2:  
Scientific  
Practice

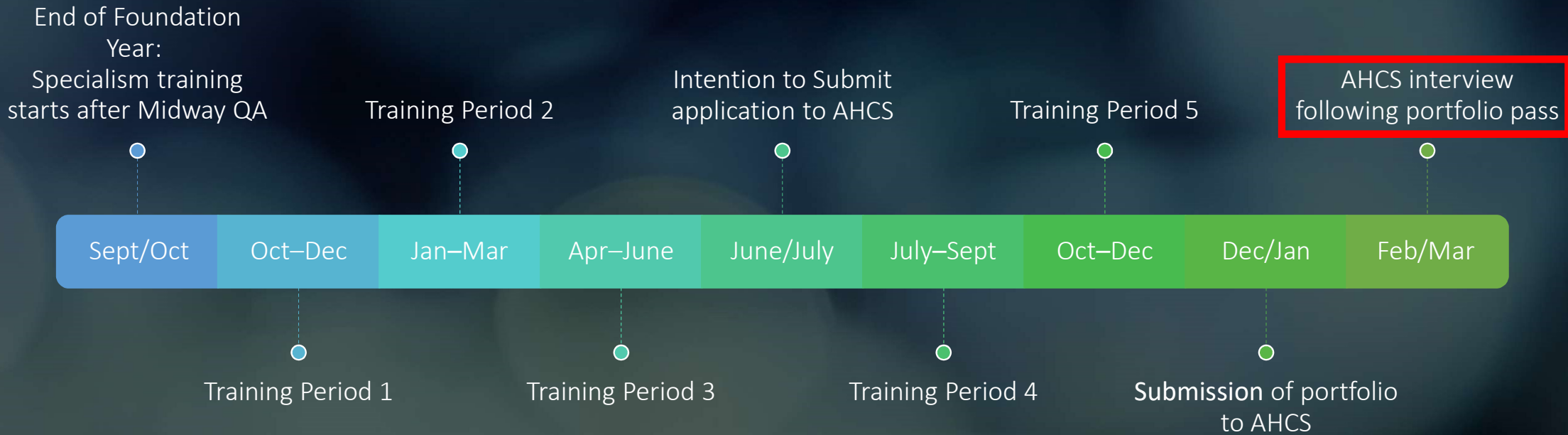
Domain 3:  
Clinical  
Practice

Domain 4:  
Research,  
Development  
and  
Innovation

Domain 5:  
Clinical  
Leadership



# Specialism Training Timeline



# AHCS Interview

- Process designed to ensure you are competent to practice as a state-registered Clinical Scientist
- Panel comprises a scientific assessor (from your specialism), a clinical assessor (from Medical Physics or Clinical Engineering but not your specialism) and a lay assessor who chairs the panel
- Following a successful interview, you'll receive a certificate of Equivalence to STP, allowing you to register with the HCPC and become a state-registered Clinical Scientist!