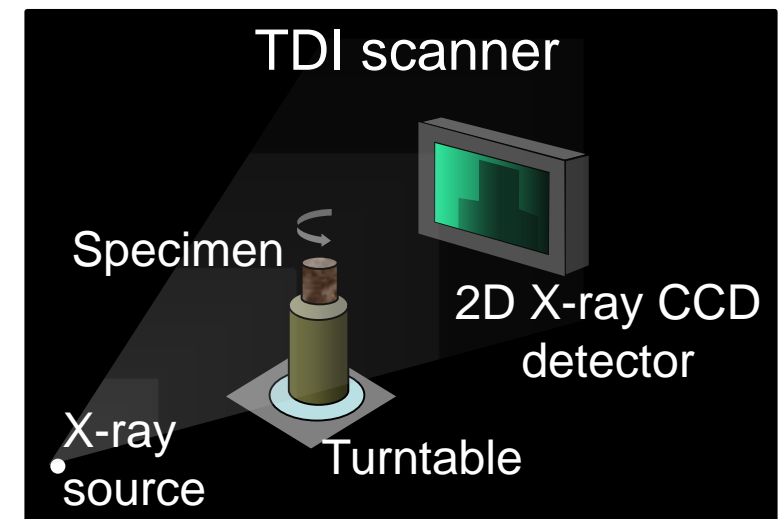


# Design of high contrast quantitative X-ray microtomography (XMT) systems



Graham R. Davis

- Unique MuCat XMT scanning facility
- High dynamic range cooled time-delay integration (TDI) CCD camera
- Analytical beam hardening correction
- Scatter reduction through collimation
- Uniform pixel sensitivity (no ring artefacts, no noise contribution)
- Recorded image length can be longer than CCD
- Only need to calibrate each row, not each pixel
- Defect tolerant



Titanium implant

