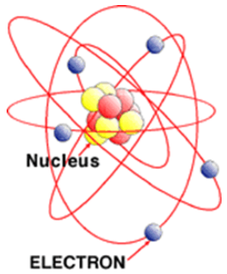

Join us on our journey
contact us to discuss your needs or book a training today.

Rutherford Appleton Laboratory, HARWELL OXFORD, Didcot OX11 0QX
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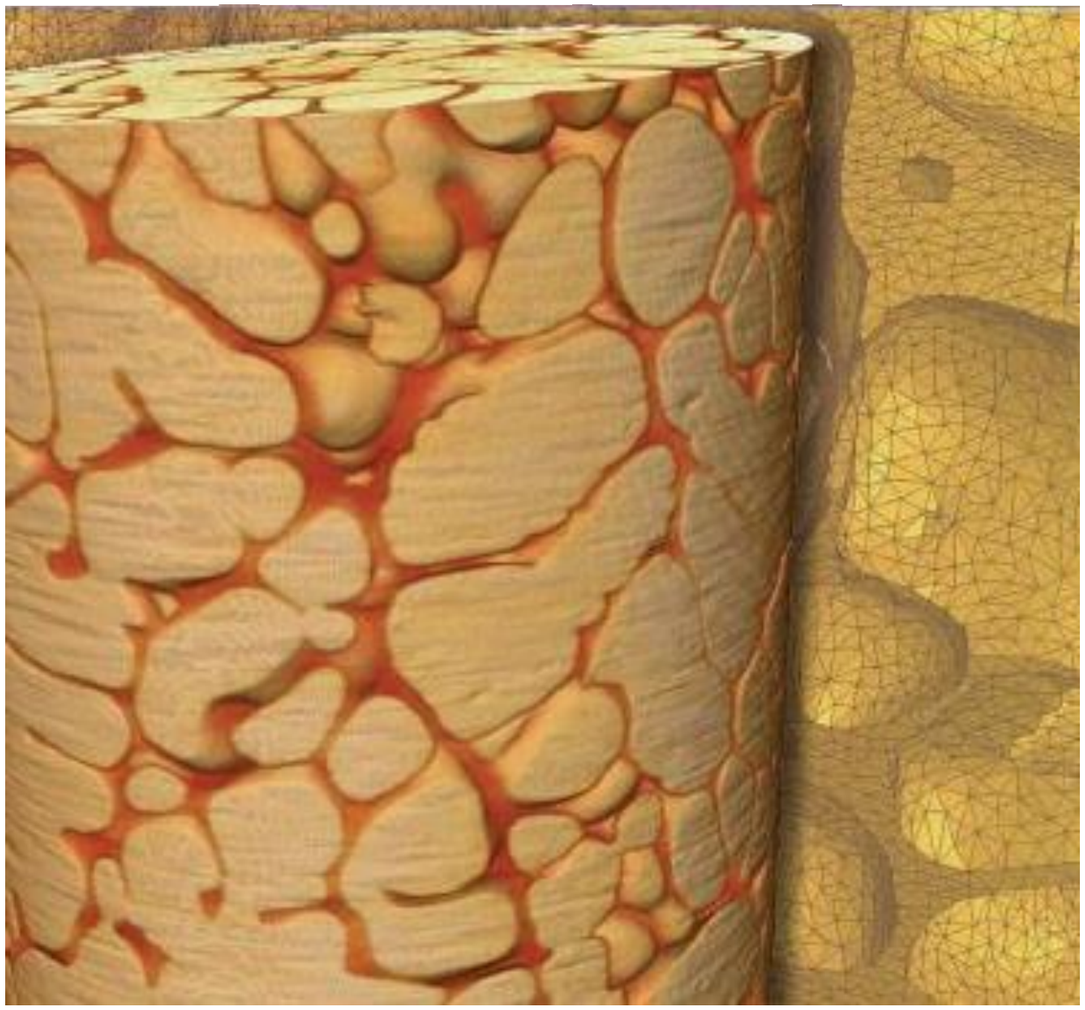
WWW.3DMAGINATION.EU

3Dmagination
"Imaging beyond imagination"

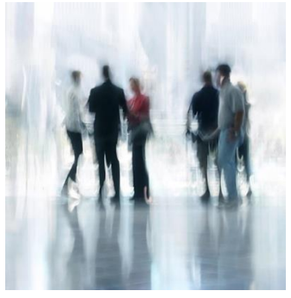
Imaging - Quantifying - Testing - Modelling



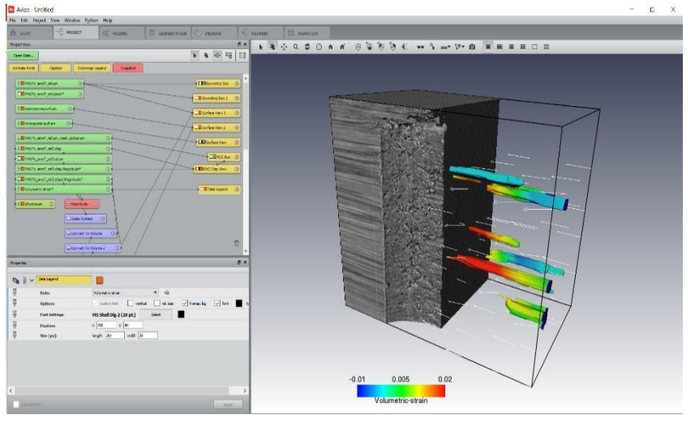
Driven by technological and computational progress, X-ray computed tomography is continuously growing. Yet, a lot remains to be done to solve all the technical problems when more constraints are put on the technique. To face these challenges, 3Dmagination offers advanced training and services in 3D/4D imaging to academics and companies willing to take the lead in their research and business.

3D imaging solutions
For Business Success

We have allocated slots to state-of-the-art laboratory scanners and synchrotron-based tomography imaging from the nano- to the macro-scale, equipped with a range of in situ rigs to capture dynamic processes in service or during manufacturing processes. We offer a full analysis, from scanning to extraction and quantification of scientific information from the images.

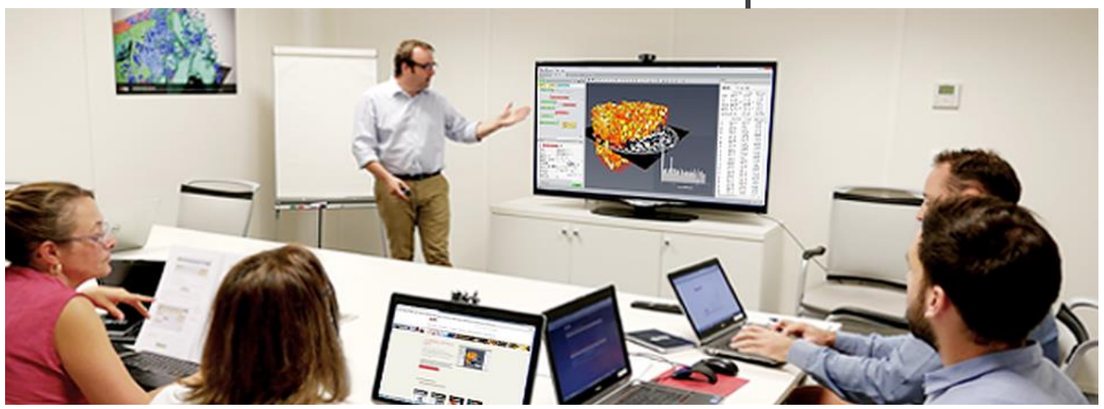


3Dmagination is very active in the field of Digital Volume Correlation (DVC) and co-developed Amira-Avizo software for Digital Volume Correlation in collaboration with Thermo Fisher Scientific and EikoSim. By merging different synergies and skills, we are dedicated to providing the best service to our growing DVC community..



"We advise you on the best imaging platform and offer a full, fast scientific analysis (sample preparation, 4D scanning, data storage, data processing, technical report)."

3D computer-based courses
For Sustainable Development



Course 1

Visualisation and quantification of tomographic datasets: overview of the X-ray CT imaging chain with guidelines to produce images of good quality and the impact of imaging noise and artefacts, data management, manipulation of 3D data, 3D renderings, filtering, basic/advanced segmentation, registration/alignment, animation/movies (Avizo software).

Course 2

Scripting and batch processing of tomographic data : design your own recipe and script it using Tcl and Python languages, automate your workflow to process hundreds of images, practice on different case studies, develop and customize your own Avizo module with predefined parameters and call it directly from Avizo.

Course 3

Digital Volume Correlation: importance of imaging noise and texture when using this technique, guidelines on how to perform a DVC analysis, analysis and visualisation of the data in a sophisticated way, development of micro-FE models with realistic boundary conditions.

"As STEM ambassadors, we are dedicated to inspiring the next generation of young scientists by showing them inspiring practical applications of the way science can impact our economy and society."

EES National Award working with Wycombe Abbey School

"When we met with our mentors we learned a great deal from not only their lectures and presentations, but also just from observing how they tackle problems and what sort of work they do as engineers on a daily basis." *Sadhbha Odufuwa-Bloger*