



conservation technologies

We offer a conservation service of the highest quality.
As part of National Museums Liverpool
and based at the award-winning Conservation Centre,
we provide tailor-made solutions
to a wide range of conservation issues.

our services include:

Sculpture and Monuments Conservation
3D Recording
3D Product Development
Technical Services

sculpture & monuments conservation



18th Century wooden panel before and after conservation treatments

Conservation Technologies is at the forefront of the conservation field and has pioneered the development of advanced technologies to care for items and artefacts from all historical periods.

Our experienced team recommends the most appropriate conservation treatment to clients who have responsibilities for collections of sculpture and monuments such as local authorities, museums, ecclesiastical organizations, architects, and private collectors.

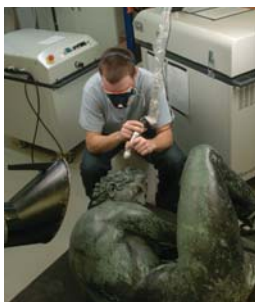
Our team of conservators and scientists work closely with clients to ensure that all objects receive sensitive conservation treatment in a safe and secure environment.

We are highly skilled practitioners in sculpture and inorganic conservation treatments, emergency stabilization, restoration, condition surveys and visual recording in both 2D and 3D. We also provide an aftercare and maintenance programme which forms an important part of our comprehensive service.



Initial investigations and recording of artefacts

laser cleaning



Laser cleaning of monumental bronze

Laser cleaning is an extremely sensitive technique that allows a skilled conservator to selectively remove unsightly and potentially damaging layers from the surface of an artwork, whilst preserving patina, fine detail and important surface coatings.

Conservation Technologies has played a leading role in the development of laser cleaning in conservation for over ten years. Our team has extensive experience of using lasers to clean a wide range of sculptural materials both in our studios and on-site.

Our expertise in laser cleaning and traditional conservation treatments ensures that we provide a conservation service of the highest quality.

training

We provide internship opportunities for conservation students and professionals seeking experience in sculpture and monuments conservation.

Our experienced staff also provide practical training in laser cleaning of cultural artefacts. These regular two-day courses are attended by conservators worldwide.



Laser cleaning training

3d recording



3D recording of Peter Pan

Conservation Technologies employ the latest laser scanning techniques to provide a high quality comprehensive three-dimensional recording service.

Scanning can be undertaken in almost any location and can be carried out on objects ranging in size from a few centimetres to several metres. The technique is non-contact and completely harmless. The result is a highly accurate 3D digital record of the object, which can be viewed and manipulated on a standard PC. These images can be shared between computers, widening access to important cultural artefacts.

A digital record such as this can be used as an important part of the historical record of the object, in museum displays, for academic study, virtual restoration and production of highly accurate replicas in natural and synthetic materials.



3D recording of a classical marble statue



Wooden statue of Buddha showing 18th century appearance

Virtual reconstruction showing possible 12th century appearance of statue of Buddha. Gilt rendered model

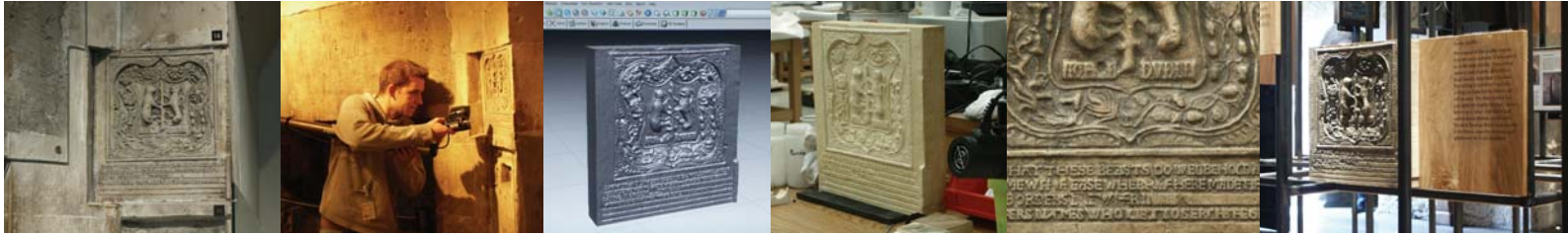
Conservation Technologies is active in developing and understanding the benefits new technology can bring to the conservation and study of sculpture and monuments. Virtual reality 'touch' technology, which allows a person to 'feel' a 3D digital model of a sculpture, is being used and developed to produce new tactile interactive displays for exhibition and educational uses.

client list

Conservation Technologies undertakes work for local authorities, regional and national museums, ecclesiastical organisations, architects, private collectors and fine art dealers. Our extensive client list includes:

British Museum • Victoria and Albert Museum • Natural History Museum
 Historic Royal Palaces • National Museum Ireland • Museum of Fine Art, Boston
 Harvard University Art Museums • Ny Carlsberg Glyptotek, Copenhagen • Liverpool City Council
 Manchester City Council • Leeds City Council • English Heritage • National Trust
 Upton Bishop Parochial Church Council • Prestbury Parochial Church Council • Manx National Heritage

3d product development



Reproduced by kind permission of Historic Royal Palaces



Original marble head of Caligula Glyptotek Museum, Copenhagen

Conservation Technologies provides a comprehensive replication and product development service for new retail opportunities, museum exhibitions, educational resource and restoration.

We specialise in creating accurate replica sculpture through the precise use of non-contact 3D recording techniques and subsequent manufacture into real materials such as marble, limestone, bronze and silver. Skilled conservation staff hand-finish the works to create a highly authentic patina. Replica sculpture is produced to the highest specification possible, enabling high value and rare artworks to be accessed and utilised without the risk of physical damage to the original.



Digital model of Caligula



Computer - controlled machining of Caligula replica

We collaborate, design and develop high quality new products that originate from real items in a museum's collection. These items can be the inspiration for new design and retail opportunities; artefacts can be reduced or enlarged in size, redesigned and produced in a wide range of materials. These products can be tailor-made to your individual exhibition, marketing and retail opportunities.



Replica marble head of Caligula Glyptotek Museum, Copenhagen

technical services

Technical Services provide a wealth of expertise and technical assistance based on many years working on the diverse exhibition programmes of National Museums Liverpool. This ranges from the dismantling, transportation and reinstatement of large monuments and artefacts, production of exhibition models and display materials to the mounting of the most delicate of objects.



Removal of bronze figures from Nelson's Monument, Liverpool

enquiries

For further information on any of the services we provide, please contact:

Conservation Technologies

Conservation Centre, Whitechapel, Liverpool, LI 6HZ telephone: +44 (0)151 478 4916 facsimile: +44 (0)151 478 4810 email: conservationtechnologies@liverpoolmuseums.org.uk web: www.conservationcentre.org.uk/technologies