

Open PostDoc Position at the Chair of Conservation-Restoration, Art Technology and Conservation Science

The new insiTUmlab, analytical infrastructure for non-destructive in-situ studies of cultural heritage part of the Chair of Conservation-Restoration, Art Technology and Conservation Science, TUM School of Engineering and Design is looking for a post doc to the earliest possible date. This is a three (+2) years part-time position (75%, TVL-13) funded by the Deutsche Forschungsgemeinschaft (DFG).

Your responsibilities:

- Developing, implementing, and evaluating new methods for the analysis in-situ of cultural heritage using portable non-destructive analytical techniques, such as Hyperspectral imaging, Macro-XRF, FTIR in Reflection mode and Raman spectroscopy.
- Carries out analysis of micro-samples in laboratory by mean of spectroscopic and chromatographic techniques.
- Implementing advanced statistical analysis methods on scientific data.
- Development of hyperspectral data treatment protocols using modern software (e.g. ENVI).
- Assisting the principal investigator in the implementation of the new insiTUmlab infrastructure.
- Collaborate in national and international research projects with other chairs at TUM (e.g. Chair of Non-destructive testing; Biogenic polymers) as well as external partners, such as the Doerner Institut, Deutsches Museum, Bayerische Landesamt and Bayerische Verwaltung der staatlichen Schlösser, Gärten und Seen.
- Tutoring of Master and PhD students.
- Researchers, plans, conducts, and documents, the creation of replica exemplar materials as well as artificial ageing protocols, followed by characterization of the artificially aged material.
- Performs literature reviews of scientific and conservation publications, proposing improvements to existing protocols and procedures.
- Writes progress and summary reports, standard operating procedures, and annotated bibliographies on related topics and activities.
- Develops platforms and activities for students and public engagement, as well as writes scientific articles, papers, reports, as appropriate.
- Other duties as assigned

Your qualifications:

- Ph.D in chemistry, physics, material science, conservation science, related disciplines or equivalent experience (required).
- Experience using portable non-destructive analytical techniques.
- Strong interest in historical materials.
- Experience working in an interdisciplinary environment, specifically with conservators as well as historians, archeologists etc. (preferred).
- Strong command of both written and spoken English (required). A good command of both written and spoken German is preferred. Other languages are welcome.

Our offer:

- Interesting and versatile workplace
- International, attractive, and interdisciplinary working environment.
- Flexible working hours
- Salary according to TV-L (*TV-L E13, part-time 75%*) including social benefits.
- Possibilities for personal development
- Disabled applicants with equal suitability and qualification will be given particular consideration.
- The TUM is striving to increase the proportion of women and hence applications from women are therefore expressly welcomed.

Your application:

Please send per email a cover letter, at least one letter of reference together with a strong CV and supporting documentation to the Chair of Conservation-Restoration, Art Technology and Conservation Science, Dr. Clarimma Sessa, Oettingenstraße 15, 80538 München **no later than 30. October 2022.**

Contact: Clarimma.sessa@tum.de

Do not hesitate to contact Dr Clarimma Sessa for any questions you may have Phone +49 (89) 21124 – 559/+4915159463259.

As part of your application, you provide personal data to the Technical University of Munich (TUM). Please view our privacy policy on collecting and processing personal data in the course of the application process pursuant to Art. 13 of the General Data Protection Regulation of the European Union (GDPR) at <https://portal.mytum.de/kompass/datenschutz/Bewerbung/>. By submitting your application you confirm to have read and understood the data protection information provided by TUM.