



Post Title: Senior Specialist Structural Conservation

Employer: Department of Culture and Tourism

Location: Abu Dhabi (United Arab Emirates)

Salary: Competitive Salary (Income Tax Free)

About DCT:

The Department of Culture and Tourism - Abu Dhabi regulates, develops and promotes the emirate of Abu Dhabi as an extraordinary global destination, rich in cultural authenticity, diverse natural offerings, world-class hospitality and unparalleled leisure and entertainment attractions for every type of traveller.

Our organisation strives to preserve and promote the emirate's rich cultural and historic heritage. By sharing Abu Dhabi's unique legacy through a wide-ranging programme of cultural events, exhibitions and museums, we aim to present the emirate as an international cultural destination.

The Culture Sector leverages the cultural heritage of Abu Dhabi to advance the emirate's development as a world-class, sustainable destination of distinction. Our policies, plans and programmes are driven by our commitment to protecting the many archaeological and historical sites throughout the emirate, including our UNESCO World Heritage Sites.

Main Advert

Seeking a mid-career structural engineer specialized in heritage conservation to support the conservation of archaeological sites, historic buildings, and modern buildings that are part of Abu Dhabi's emirate's historic environment. Responsibilities will include assessments and analysis of structural behavior through field investigation, site inspection and monitoring, measurements, calculations and modeling; evaluation and diagnosis of threats; design of creative strengthening, retrofitting and repair solutions; site supervision of the implementation of structural repairs and solutions as well as support of other site works. Prior experience or training in earthen architecture is highly preferred.

Job Purpose

To assess, plan, coordinate and supervise the implementation of structural solutions for Abu Dhabi's Historic Environment

Key Accountabilities

Conservation Operations

- Assess structural behaviour of Abu Dhabi's Historic Environment (vernacular historic buildings, archaeological sites, structures, modern heritage) and associated structures (shelters, site buttresses, buildings nearby) through field investigation, site inspection and monitoring, measurements, calculations and modeling.
- Analyze through quantitative and/or qualitative data collection and modelling the structural behaviour of cultural heritage resources from single structural elements to structural systems.
- Evaluate and anticipate any future threats that can affect the structural stability and performance cultural heritage sites and diagnose pathologies and inherent, external, and anthropomorphic causes of deterioration.



- Design creative strengthening, retrofitting and repair solutions that respect the nature of the built heritage using both traditional and modern methods observing best practice as defined in international heritage charters and conventions by choosing the appropriate construction materials and techniques
- Develop and manage a schedule for the structural repairs or improvements.
- Supervise the implementation of structural repairs or improvements and ensure all works carried out are accurately documented, archived and made available for research and historical record keeping.
- Develop regimens and processes to monitor structural issues as part of the overall monitoring plan for the conservation of the built heritage, collect and analyze structural monitoring data.
- Build capacity of work force in implement structural repairs when possible
- Prepare presentations, reports and articles that are related to conducted work.
- Evaluate structural assessments and designs submitted by external parties as part of DCT projects or as part of development review and permitting approvals.
- Evaluate structural repairs and site works implement by external consultants.
- Assist in field supervision of conservation site works, when required.

Day-to-Day Operations

- Supervise the site works related on structural improvements.
- Monitor the structural status of sites under the monitoring plan.
- Supervise, assist, monitor workforce, logistics, workshops and site mobilizations.
- Report on a regular basis to the Conservation – Historic Buildings Unit Head on operational activities, challenges, hurdles and methods of resolution or mitigation etc. as required to keep the Line Manager informed and updated about the unit's activities.
- Prepares progress and status reports by analyzing and summarizing the information and works of assigned projects.
- Manage information produced to document work carried out.
- Review and provide technical recommendations to structural reports submitted to DCT Conservation Section.

Qualification

- Bachelor's degree in Civil Engineering or Structural Engineering or equivalent.
OR
- Master's degree in Structural engineering/Architecture/Archaeology/ Historic Preservation (Heritage Conservation) or equivalent. (but as addition to the Bachelor degree in Civil/Structural engineering)

Experience

- For Bachelor Degree Holders: 5 to 8 years of work experience in structural engineering with a minimum of 5 years of experience on heritage conservation projects.

OR
- For Post Graduate Holders: 5 years of work experience in structural engineering with a minimum of 3 years of experience on heritage conservation projects.

Working Conditions

- The role is a full time permanent position based in Al Ain (Abu Dhabi Emirate, UAE).
- Working days: Sunday to Thursday Working Hours: 8 hours/per day
- May require to travel within the Emirates based on the project location



Key skills and competencies

- Training in traditional earthen architecture, and/or equivalent in work experience preferred
- Experience in documentation and recording, materials testing, assessment and intervention design for heritage sites
- Knowledge of the following: DIANA finite element analysis program (or comparable), AutoCAD, Adobe Suite (Photoshop, Indesign etc.), Microsoft suite (Word, Powerpoint, Excel, etc.
- Language competency in English as well Arabic and/or Urdu/Hindi

How to Apply

To apply for the role kindly send your updated Resume to the Talent Acquisition Specialist: Thara Varughese on TVarughese@dctabudhabi.ae