

## C40 SOUTH AFRICA BUILDING PROGRAM TECHNICAL OFFICER: ENERGY EFFICIENCY IN NEW BUILDINGS, CAPE TOWN



CITY OF CAPE TOWN  
ISIXEKO SASEKAPA  
STAD KAAPSTAD



SEA  
SUSTAINABLE  
ENERGY  
AFRICA

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**Position Title:** Technical Officer, Energy Efficiency in New Buildings, City of Cape Town

**Location:** City of Cape Town, 44 Wale Street (cnr Long Street), Cape Town

**Reporting to:** Programme Manager, Sustainable Energy Africa and Line manager within the City

**Salary range:** ZAR 520 000 – 780 000 per year total cost of employment (relocation costs will not be covered)

**Contract period/Term:** Fixed term – January 2018 until December 2020.

**Application submission:** Please send your letter of application and an up to date c.v. to Hlengiwe Radebe at [Hlengiwe@sustainable.org.za](mailto:Hlengiwe@sustainable.org.za) no later than Friday 10th November. For more information contact Hlengiwe at 021 702 3622.

*Note: Although the employment is with the local C40 Delivery Partner, Sustainable Energy Africa, the Technical Officer will be seconded to the City of Cape Town and will report on a daily basis to the relevant City line manager.*

### Background

Sustainable Energy Africa, a Cape Town based not for profit organisation, is the local 'delivery partner' of the C40 South Africa Buildings Programme. The C40 Cities Climate Leadership Group connects more than 90 of the world's greatest cities which have committed to tackling climate change. C40 positions cities as a leading force for climate action around the world. Working across multiple sectors, C40 convenes networks of cities providing a suite of services in support of their efforts towards creating a sustainable future, including: direct technical assistance; facilitating of peer-to-peer exchange; and research, knowledge management and communications. As a climate organisation of the world's greatest cities, C40 supports its members to move on to a low carbon development pathway, adapt to climate change, curb GHG emissions and engage in partnerships among themselves and with global organisations, national governments, the private sector and civil society.

Improving building energy efficiency represents a significant opportunity for cities to reduce their carbon emissions and contribute to global emission reduction commitments. C40 *Deadline 2020* research shows that achieving abatement in line with what is needed to restrict global temperature rise to 1.5° C requires a

radical and comprehensive transformation to reduce building energy demand and clean up the energy supply. Cities have a crucial role to play in the implementation of zero carbon building policies and programmes to meet national ambitions and targets and to go beyond these to achieve the significant GHG emission reductions so urgently needed. To boost its existing networks and initiatives C40 is funding a programme of deep technical assistance to cities on energy and buildings, known as Building Energy 2020.

The aim of the C40 South Africa Buildings Program is to support the C40 member cities of Durban, Johannesburg, Cape Town and Tshwane to achieve city-wide implementation of policies and programmes to deliver low and zero carbon buildings. The programme will amplify individual city solutions by providing a platform for showcasing city learnings and successes with a broad network of South African municipalities.

### **Job Description:**

The Technical Officer (TO), Energy Efficiency in New Buildings, should have a passion for addressing climate change and be excited by the opportunity to work with a pioneering local city to assist in accelerating the implementation of transformational building energy requirements and resource efficient urban development policies during the programme period. The TO will be an experienced building, planning or urban development professional who can provide robust technical energy assistance to achieve regulatory change and mechanisms to achieve a city-wide zero- or low-carbon objective for the built environment. Understanding of building design and building energy codes, property development and urban land economics, as well as excellent communication abilities, will be vital skills to provide cities with the technical assistance they need to deliver transformative policies and programmes. All things being equal, HDI placements will be given preference.

### **Essentials skills and experience of the Technical Officer**

- A building or development planning professional with clear building energy efficiency or property economics/resource efficient urban development experience and a background in development/urban planning, architecture, engineering or building physics.
- Familiarity with policy and building code/regulation documents with working knowledge of the South African building energy codes/regulations including Part XA SANS 10400 standard and the SANS 204 guidance standard.
- Knowledge of urban land economics and resource efficient urban development and planning.
- Hands on experience of working on new building energy efficiency and building regulations/codes, and/or resource efficient urban development planning and regulation, preferably with a municipality, or as a consultant working for a municipality.

The ideal candidate will also have:

- Experience of working with property developers and with large scale mixed use property developments, particularly from a Transit-oriented Development approach. Experience with municipal governments in South Africa is an advantage.

- Skills in property/land economics, and in property development conditions including financial and development incentives to drive resource efficient development.
- Familiarity with the enforcement processes for building energy regulations as well as building energy performance monitoring and evaluation.
- Experience of facilitating workshops with multiple stakeholders from the public and private sectors to contribute to policy consultation and implementation.
- Technical expertise in the implementation of low and/or zero carbon projects.

The TO will be based in the City, reporting both to the designated City line manager and the Program Manager within Sustainable Energy Africa. The role will be varied and include delivering technical assistance and research to relevant City departments as well as engaging with the C40 SA Building Programme team for planning, feedback, shared-learning and support activities. Some travel within South Africa will be required.

**Responsibilities will include some or all of:**

- Working with the City and SEA to develop and deliver a work plan to achieve ambitious energy efficient development policy and programmes, factoring in likely roadmaps to a 1.5 degree climate mitigation target.
- Developing a 'roadmap' for low/ net zero buildings/developments with the municipal officers, supported by the delivery partner, including policy and regulatory aspects.
- Driving and being responsible for the development of enhanced energy efficiency policy and codes (technical content).
- Supporting outreach activities with stakeholders consulting on the development and implementation of enhanced energy efficiency policy and programmes.
- Identifying, through consultation with the municipal officers and the delivery partner, where additional capacity and research is required to support policy objectives and what can be included in the delivery plan.
- Liaison with other departments within the municipality around related policy and implementation practice including legal, finance, procurement, development, housing and environment policy concerning enhanced energy codes implementation.
- Working with the municipality to identify potential pilot/demonstration projects for implementation of enhanced energy performance requirements and once established, supporting implementation and profiling of leading green buildings and developments as well as effective development enforcement and building energy performance measurement.
- Providing and/or supporting briefings to senior municipal officials on progress against the implementation plan.

- Presenting technical information in a clear and concise format to inform policy and programme development and implementation.
- Engaging with and providing mutual support to the Technical Officers in other cities within the programme and, with support from municipal officers and delivery partner, provide input into the design and facilitation of knowledge-sharing events amongst the other South African C40 cities as well as well as other South Africa municipalities.
- Participation in Sustainable Energy Africa-C40 workshops as part of knowledge sharing/learning activities.