

<b>Salary Band 4T</b>	<b>Technical Advisor: International PtX Hub South Africa</b> <b>Focus: Green hydrogen &amp; synthetic fuels in transport and industry</b>
Reports to:	Component Leader
Duration:	Until 31 march 2025

## 1. BACKGROUND

To reach climate neutrality by 2050, we must transform our economies to operate emission-free fast. While 100 % renewable energy is key for this transformation, some industries and transport sectors cannot yet directly electrify to become climate neutral. Until they can, Power-to-X (PtX) and hydrogen are the missing link.

Green Hydrogen and PtX enables industries to produce anything historically dependent on fossil fuels with renewable electricity and non-fossil carbon. For example sustainable, climate neutral e-fuels and chemicals that can defossilise high-emissions industries, including the chemical, fertiliser, steel and cement industries, as well as aviation and maritime transport.

Due to the outstanding potential for renewable energy, vast PGM resources and experience in hydrogen and PtX production, South Africa is regarded as one of the main future suppliers of green hydrogen products. Building a green hydrogen and PtX economy could open-up promising new export markets for South African companies as well as domestic use opportunities. It can also lead to significant economic development and job creation and play a role in supporting a just transition in the South African energy sector.

As a part of the International Power-to- X Hub, Ptx Pathways (Enabling Long-Term Decarbonisation pathways through Power to X support the development of a sustainable PtX economy in South Africa (as well as as in Morocco and Argentina). Focus of the project is to tap the potential of a PtX economy to support South Africa's Just Transition by creating new opportunities for the fossil based industry and to ensure a climate and economic efficient allocation of PtX product.

Learn more about the International ptX Hub at [www.ptx-hub.org](http://www.ptx-hub.org)

The project cooperates closely with the hydrogen and energy projects in GIZ South Africa's Energy Cluster

## **A. TASKS AND RESPONSIBILITIES**

The Technical Advisor has the following key tasks and responsibilities:

- Support the overall implementation of the project activities. This includes planning and coordination of all implementation activities, liaising with relevant stakeholders, supporting all procurement processes for goods and services to deliver the required outputs and ensure the fulfilment of programme objectives and indicators.
- Advisory of partners in South Africa (government, private and civil society).
- Planning, preparation and implementation of the development of concept for the production and use of PtX products especially in maritime transport and aviation
- Preparation and support of strategic cooperation with companies in the power-to-liquid and power-to-gas industry to develop sustainable PtX concepts
- Conceptualize and manage required inputs and activities in cooperation with relevant stakeholders.
- Preparation and support of national and international tenders and financing agreements.
- Plan advisory projects and initiatives and coordinate the implementation with external service providers, supervising and coordinating assignments of national and international consultancies.
- Manage the cooperation between stakeholders, support steering structures and provide input to partner dialogues.
- Implement communication and knowledge management activities, incl. the organisation of workshops, seminars, study tours and other means of information sharing among government decision-makers, industry representatives and other experts.

## **B. Qualifications, competencies and experience**

- At least 5 years of relevant work experience in the fields of hydrogen/PtX, and/or maritime or aviation sector and/or petrochemical industry, and/or energy politics and/or energy project development or related field.
- Proven technical knowledge in at least one of the fields mentioned above by relevant work experience or higher education degrees.
- Demonstrated success in project and process management.

- Familiarity with the South African energy sector, renewable energy, and related policies. Good networks in the South African energy landscape will be an advantage.
- Strong interest in issues related to the green hydrogen, PtX and the energy transition and proven willingness to further develop and enhance knowledge and competencies on norms and standards.
- An ability to work in a multi-disciplinary, diverse and complex environment.
- An ability to work in a team and autonomously in a structured, methodical manner.
- Relevant computer skills (Microsoft Office, Microsoft Teams etc.).
- Excellent writing and communication skills in English.

### C. Additional information

- The position will be based at the **GIZ South Africa Office in Hatfield, Pretoria**.
- Positions are dependent on the lifespan of the programme where they are located. The PtX Pathways project phase is until **31 March 2025**.

### D. APPLICATION PROCESS

Suitable candidates should apply by submitting

- A **motivation letter (concisely 1 page) stating *why they should be the preferred candidate, the value added they will bring to the PtX Hub SA project and their desired salary range.***
- This should be accompanied by a ***detailed CV and indicating their nationality.***

**Applications should be submitted to: [recruit-pretoria@giz.de](mailto:recruit-pretoria@giz.de)**, with the email subject line ***“Application for Technical Advisor - PtX Pathways,”*** for the attention of Head of Human Resource.

Closing date for applications: **12<sup>th</sup> May 2023.**

**Please note that only shortlisted candidates will be informed!**  
**Applications without a motivation letter will not be considered!**