



August 2024

Title: Junior Professional Officer – **Junior Testing and Signaling Security Officer**  
Bureau/Dept/Unit: TSB/SGD  
Supervision: Denis Andreev/ SG Advisor  
Duration: 2 years (with option for renewal)  
Location: ITU Headquarter – Geneva, Switzerland  
Grade: **P2**

ITU is the United Nations specialized agency for information and communication technologies – ICTs.

We allocate global radio spectrum and satellite orbits, develop the technical standards that ensure networks and technologies seamlessly interconnect, and strive to improve access to ICTs to underserved communities worldwide.

ITU is committed to connecting all the world's people – wherever they live and whatever their means. Through our work, we protect and support everyone's fundamental right to communicate.

Today, ICTs underpin everything we do. They help manage and control emergency services, water supplies, power networks and food distribution chains. They support health care, education, government services, financial markets, transportation systems, e-commerce platforms and environmental management. And they allow people to communicate with colleagues, friends and family anytime, and almost anywhere.

With the help of our global membership, ITU brings the benefits of modern communication technologies to people everywhere in an efficient, safe, easy and affordable manner.

ITU membership reads like a Who's Who of the ICT sector. We're unique among UN agencies in having both public and private sector membership. So in addition to our 193 Member States, ITU membership includes ICT regulators, many leading academic institutions and some 700 tech companies.

In an increasingly interconnected world, ITU is the single global organization embracing all players in this dynamic and fast-growing sector.

The JPO would be based in ITU HQ in Geneva, Switzerland, an international and exciting city that host more than 190 international organizations. Geneva host more than two thirds of all UN activities and

is visited by nearly 3000 heads of states or similar officials every year. It is a great opportunity to be based at the heart of the diplomatic world and meet people from across the globe.

#### **A. Organizational Unit:**

The Telecommunication Standardization Bureau (TSB) fulfills the objectives of the Union relating to telecommunication standardization, by providing secretariat support to groups studying technical, operating and tariff questions and facilitating the adoption of standards ("Recommendations" in ITU parlance) in these areas with a view to standardizing telecommunications and information technology on a global basis. In order to achieve these objectives, the Telecommunication Standardization Bureau works in accordance with the instructions of the World Telecommunication Standardization Assemblies (WTSA), Telecommunication Standardization Study Groups and the Telecommunication Standardization Advisory Group. TSB, headed by an elected Director, provides the technical, administrative and logistic support for the assemblies and for the meetings of the groups mentioned.

The Study Groups Department (SGD) is responsible for facilitating, managing and supporting the work of the ITU-T study groups in the development of global telecommunication standards (ITU-T Recommendations) and other documents and databases related to standardization. It provides the counsel and secretariat for the Sector's study groups, focus groups and other ad hoc groups. Particular attention is given to "Bridging the Standardization Gap", i.e., to strengthen the participation of developing countries in the standards making process. The Department maintains close relations with the ITU Radiocommunication and Telecommunication Development Sectors and takes part in their work as required. Likewise, it cooperates with other global standards organizations such as ISO and IEC as well as recognized industry forums and consortia.

#### **B. Organizational context:** (Describe the organizational setting of the post and the purpose of the post as well as any supervision given or received)

The ITU Telecommunication Standardization Sector (ITU-T) has been conducting standardization work on testing of ICT technologies and combating different types of attacks on ICT infrastructure using spoofing numbers (e.g. robocalls).

Under the guidance of the designated Advisor, the incumbent will conduct research, assess strategies to counter spoofing numbers, evaluate ICT testing methodologies, and cultivate partnerships with diverse stakeholders to facilitate the international standardization of relevant technologies.

#### **C. Duties, responsibilities and key results expected:** *(will be evaluated by Classification Officer)*

Under the supervision of the SG Advisor, the Junior Professional Officer will:

- Learn about ITU-T standards on signalling security and regulations in place to stop number spoofing.

- Learn about ITU-T activities related to conformance and interoperability testing, including federated testbeds as well as ITU Product Conformity Database (<https://itu.int/go/tcdb>) and Testing Laboratories Database (<https://itu.int/go/tldb>).
- Analyse current situation on number spoofing and robocalls, including AI-based calls and their consequences over the globe (<https://itu.int/go/SIG-SECURITY>),
- Attend training sessions, workshops and webinars to enhance technical skills and knowledge of telecommunication technologies and protocols.
- Facilitate implementation of ongoing projects, activities and organization of events related to the signalling security issue and testing related aspects, including federated testbeds;
- Write surveys and reports related to signalling security issues and testing;
- Support in carrying out preparatory work for related events, meetings and attend the events, when required;
- Prepare related administrative and technical correspondence, including briefings, background papers on related activities and respond to external and internal inquiries;
- Assist with promoting related activities and events and facilitate the involvement of new interested parties on these activities;
- Perform other related duties as required.

#### **D. Work relations and contact**

The candidate will be integrated in a team, within the Study Group Department of the Telecommunication Standardization Bureau, under the supervision of a TSB SG Counsellor/Advisor. Regular contacts and reporting on a weekly basis are expected. The candidate will interact with ITU Member States, Sector Members and other stakeholders who participate and contribute to ITU-T Activities.

#### **E. Competencies**

**Core Competencies:** Applying Expertise; Effective Communication; Learning and Knowledge Sharing; Organizational Commitment; Results-Focused, and; Teamwork and Collaboration.

**Essential Functional Competencies:** Analysis, Judgement and Decision Making ☐; Client and Service Orientation ☒; Innovation and Facilitating Change ☒; Leadership ☐; Networking and Building Partnerships ☒; Planning and Organising ☒; Successful Management ☐

**Essential Technical Competencies** (*Examples of technical competencies are knowledge of regulatory frameworks, ERP or project management methodologies, etc.*):

- General knowledge of telecommunications;
- Understanding of the international technical standards (e.g. ITU, ISO), knowledge of testing specifications is an advantage;
- Good analytical and writing skills;
- Experience in conducting research, preparing publications and reports.

## **F. Qualifications required**

### **1. Education:**

University degree in computer science, information systems, telecommunication, or a related field. Other university degrees will be considered based on the areas of the research.

### **2. Work experience:**

At least three years of progressively responsible experience in the field of the post or related activities. Previous experience in ICT testing or signalling security related activities would be an advantage.

### **3. Languages:**

Knowledge of one of the six official languages of the Union (Arabic, Chinese, English, French, Russian, Spanish) at advanced level and knowledge of a second official language at intermediate level. Knowledge of a third official language would be an advantage. (Under the provisions of Resolution No. 626 of the Council, a relaxation of the language requirements may be authorized in the case of candidates from developing countries: when candidates from such countries possess a thorough knowledge of one of the official languages of the Union, their applications may be taken into consideration.)

## **G. Training and Learning Elements:**

The candidate will acquire excellent knowledge and experience of:

- International Telecommunication Union frameworks and policies;
- Knowledge of technical aspects related to the post, as follows (not limited to):
  - Signalling and networking standardization activities, including network architectures and related protocols;
  - Signalling security issues, including the use of digital certificates in signalling exchange to combat spoofing number;
  - Conformance and interoperability issues;
- Digital tools and systems;
- Organization of events (webinars, workshops).

Learning will be structured and will take place through direct involvement in participation in ITU meetings and/or workshops/webinars, by studying ITU reports, surveys, studies or activities related processes, by mentoring and on-the-job training.

The post holder will be attached to a direct supervisor who will provide learning opportunities by the following means:

- Attending ITU trainings dedicated to staff;
- Attending language courses organized by ITU to staff;

- Attending events organized worldwide on the topics of interest of the post.