

February 2024

Title: Intern – Internship: Intelligent Transport Systems

Bureau/Dept/Unit: TSB/SGD

Supervision: Stefano Polidori / SG Counsellor

Duration: 6 to 11 months maximum

Location: ITU Headquarter/Geneva, Switzerland

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.

1. **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 Recommendations in these areas with a view to standardizing telecommunications and information technology on a global basis. 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.

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| 1. **Organizational context:**   The ITU Telecommunication Standardization Sector (ITU-T) has been conducting core standardization work within the domain of Intelligent Transport Systems (ITS), Autonomous/Automated Driving (AD) and Smart Mobility. Also, it has established the collaboration on ITS communication standards (CITS) and the related expert group on Communications Technology for Automated Driving (EG-ComAD) to support collaboration and coordination as well as future standards developments in these topics. In addition, ITU has a long collaboration with the UN Special Envoy on Road Safety as well as the UN Envoy on Technology aiming to harness the role of Artificial Intelligence (AI) to enhance worldwide Road Safety, especially in developing countries. All these initiatives also aim to establish collaboration and partnerships within other UN agencies active in this field. To further support the expansion of these topics within the United Nations and to facilitate international standardization of related technologies, under the direction of the responsible Counsellor, the incumbent will coordinate, research and implements the assigned programs to enhance and position the ITU relevance in the field of ITS, Smart Mobility, AI, Automated Driving and Road Safety |

## **Terms of Reference / Internship Objective:**

Under the supervision of the TSB Counsellor, the intern will:

* Contribute to the implementation of specific programs, including the provision of relevant data input to support decision making.
* Support processes with partner organizations within the United Nations, ITU Sector Members, Member States, other international organizations to ensure that action is taken for the approval and/or implementation of programs.
* Undertake necessary action to ensure the efficient implementation of approved programs assigned to him/her.
* Participate in the organization of and take part in meetings for programs implementation. Identify and propose options to resolve related problems.
* Draft reports to assist in monitoring and evaluate the implementation of programs by analyzing progress and other reports.
* Support the revamp of the content of existing ITU webpages on Intelligent Transport Systems (ITS), AI for Road Safety, Smart Mobility, collaboration on ITS Communication Standards.
* Research policy and technical issues to develop content of new webpages on these topics, considering recent trends and developments within the ITU as well as outside the ITU.
* Maintain update relevant ITS communication standards databases and other online resources.
* Draft relevant documents and reports and participate in the preparation of documentation, requirements specifications, terms of reference, promo material for the different internal TSB and ITU service providers.
* Support the organization and follow up of onsite/online events, webinars and workshops, including the Symposia on the Future Networked Car and the CITS, following up with national administrations, Sector Members, international organizations, or other entities as required.
* Support related events promotion in social media (e.g., LinkedIn) by creating content used for online posts.
* Perform other duties as required in the domain of Intelligent Transport Systems.

1. **Competencies**

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

Interest in innovation in the field of transportation and information and communication technologies (ICT) is an important skill for the successful candidate.

The incumbent will be integrated in a team, within the Study Group Department of the Telecommunication Standardization Bureau, under the supervision of a TSB Counsellor. Regular contacts and reporting on a weekly basis are expected. The incumbent will interact with ITU Member States, Sector Members and other stakeholders who participate and contribute to ITU-T Activities as well as with external partners organizations. Therefore good interpersonal relationship skills are also important.

1. **Qualifications required**
2. **Education**:

University degree in areas related to information and communication technologies (e.g., engineering, telecommunication, computer sciences), as well as international relations or international developments studies. Other university degrees will be considered based on the areas of the research.

1. **Work experience**:

No work experience is required.

1. **Languages:**

Excellent knowledge of English for conducting research and producing content for documents and webpages is a preference for this post.

1. **Training and Learning Elements:**

The intern will acquire excellent knowledge and experience of:

* United Nations Systems
* International Telecommunication Union frameworks and policies
* Research in the fields of intelligent transport systems (ITS), smart mobility, autonomous driving, AI, Road Safety, Information and Communication Technologies.
* Organization of events, workshops
* Modern working tools and social media

Learning will be structured and will take place through participation in ITU meetings and/or workshops, by studying ITU reports, surveys, online research, by mentoring and on-the-job training. The post holder will report 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 international events on the topics of interest of the post