



# Vacancies

## Posts of Assistant Directors

The Telecommunications Regulatory Commission of Sri Lanka (TRCSL) is the regulatory authority for telecommunications sector of the country with responsibility for facilitating the development of competitive, innovative and consumer-focused telecommunications, and is also responsible for managing and regulating the radio frequency spectrum in Sri Lanka.

The management of the radio spectrum involves the careful consideration and balancing of a broad range of factors (technical, regulatory, social, economic and administrative) with a view to ensuring that the radio spectrum is optimally and efficiently managed.

TRCSL is a multi-disciplined, professional organization operating in a complex, dynamic environment.

We are looking for dynamic, result oriented, qualified and experienced individuals for the following positions in the Spectrum Management division of TRCSL.

### Job Title and Job Description :

Job Title	Job Description
<b>1. Assistant Director / Spectrum Planning</b>	<ul style="list-style-type: none"> <li>Maintain National Frequency Allocation Table(NFAT) of Sri Lanka</li> <li>Plan the radio frequency spectrum to improve spectrum efficiency and flexibility to implement new technologies such as SDR, Cognitive radios etc.</li> <li>Implement Spectrum re-farming strategies for the accommodation of future Broadband Wireless Access Services</li> <li>Review existing sharing and compatibility studies between radiocommunication services in co-channel and/or adjacent frequency bands, with focus on co-existence between cellular and satellite services</li> <li>Analyze and evaluate technical parameters of various radiocommunication services, e.g. Fixed, mobile, satellite, and broadcasting</li> <li>Conduct and review existing sharing and compatibility studies between radiocommunication services in co-channel and/or adjacent frequency bands, with focus on co-existence between cellular and satellite services</li> <li>Use propagation and system modelling to assess coexistence scenarios between different wireless technologies</li> <li>Assist to conduct national and international frequency coordination</li> <li>Keeping database records for the coordination activities with neighbouring countries</li> <li>Generating ITU notification forms for frequency assignments requiring international coordination</li> <li>Assess the impacts of new radio applications on existing investment in spectrum bands</li> </ul>
<b>2. Assistant Director / Spectrum Licensing</b>	<ul style="list-style-type: none"> <li>Evaluate application forms for assignment of frequencies for all categories of radio communication Services (Point- to- Point, Point- to- Multi points, Satellite Public Mobiles, Private Mobile, WLAN etc.)</li> <li>Assist to issue invoices for new assignments/renewal of licenses and issuance of frequency licenses</li> <li>Oversee collection of license fee for the renewal of frequency licenses</li> <li>Assist to relinquish spectrum that is not being used efficiently or effectively</li> <li>Carry out on-site inspection prior to issuance of license and post- licensing inspection</li> <li>Carry out Radio site engineering surveys for all the services</li> <li>Assess the effective &amp; efficient utilization of spectrum bands assigned to fixed/mobile Operators</li> <li>Assist to perform spectrum audits</li> <li>Assess the utilization of radio spectrum bands assigned to mobile networks</li> <li>Ensure that the use of radio and radio frequencies throughout the spectrum conforms to license requirements</li> <li>Enforcement of license terms and conditions to enable users to operate without causing interference to each other</li> </ul>
<b>3. Assistant Director / Spectrum Monitoring &amp; Enforcement</b>	<ul style="list-style-type: none"> <li>Carryout activities related to radio spectrum monitoring and perform testing</li> <li>Investigate interference complaints &amp; eliminate of harmful interference</li> <li>Identify of illegal/unlicensed use of spectrum in the country and take regulatory actions against unauthorized (does not comply with the license condition) users/ illegal use of spectrum</li> <li>carry out on-site inspection in case of reported harmful interference and analysis process spectrum monitoring reports on harmful interference</li> <li>Assist to investigate interference complaints and resolve interference issues</li> <li>Assist law enforcement agencies to conduct raids against illegal use of radio equipment</li> <li>Maintenance and calibration of laboratory test equipment and other equipment used by the inspection and monitoring elements of the organization</li> <li>Carry out Radio compatibility and EMC studies</li> </ul>
<b>4. Assistant Director / Spectrum Engineering Analysis</b>	<ul style="list-style-type: none"> <li>Use propagation and system modelling to assess coexistence scenarios between different wireless technologies</li> <li>Propagation prediction using digital terrain elevation data and propagation models recommended by ITU</li> <li>Calculation of the station coverage area and displaying on digital maps</li> <li>Microwave link analysis</li> <li>Intra-service interference analysis in analogue radio/TV and cellular mobile services</li> <li>Compatibility calculations between the sound broadcasting service in the band of about 87-108 MHz and the aeronautical services in the band 108-137 MHz</li> <li>Intermodulation interference and desensitization analyses</li> <li>Analyze and evaluate technical parameters of various radiocommunication services, e.g. mobile, satellite, fixed, radar and broadcast</li> <li>Calculation of the coordination contours for earth stations of geostationary satellites according to ITU Radio Regulations and determination of terrestrial radio stations being inside this contour and sharing the same frequency band</li> <li>Perform analysis using spectrum engineering tools to determine the radio performance of mobile cellular and other wireless networks, e.g. coverage, radio interference, co-existence parameters that promote efficient and effective spectrum use</li> <li>Measure the real impact of new radio systems on the wireless environment and use these results to facilitate new options for spectrum sharing</li> </ul>
<b>5. Assistant Director / IoT Wireless Technologies</b>	<ul style="list-style-type: none"> <li>Identify availability of spectrum that suitable for Internet-of-Things(IoT) applications in following range of networks                             <ul style="list-style-type: none"> <li>Wireless Personal Area Network WPAN/ Wireless-Local Area Network (WLAN) - Bluetooth, BLE, INSTEON, IrDA,6LoWPAN, RFID, NFC, Z-Wave, ZigBee, wireless USB.</li> <li>Low Power Wide Area Network (LPWAN) -Sigfox, Lora WAN, Cat-M1, Cat-NB1, Weightless-P,WI-SUN, Ingenu, etc.</li> <li>Wireless Wide Area Network (WWAN) -GPRS, 3G, 4G, Cat-1, 5G, Satellite.</li> </ul> </li> <li>Study and develop technical standards for wireless IoT technologies being used in WPAN/WLAN, LPWAN and WWAN</li> <li>Identify the spectrum ranges suitable for narrowband, wideband, short or long-range IoT applications in Sri Lanka and Allocation</li> <li>Develop domain specific strategies for IoT applications in Agriculture, Health, Education, Environment, Water quality, Transportation, Vehicular Traffic, Public Security &amp; Safety, etc by use of wireless technologies</li> <li>Develop network infrastructure related to IoT based project plans to be shared with various Government Authorities</li> </ul>

### Qualifications and Experience :

- 1st or 2nd class Bachelor's (Special Degree) preferably in the Engineering field from any university recognized by University Grant Commission of Sri Lanka or equivalent qualification; and
- Associate membership of the Institution of Engineers, Sri Lanka(IESL) or similar membership of other professional Engineering Institution recognized by IESL; and
- Minimum of three (03) years professional work experience, ideally in the Telecommunications/Radio Communications sector.

### Desired :

- Sound understanding of ICT/telecommunications /radiocommunications technologies; how they are used by Operators or Service Providers & consumers in Sri Lanka.
- High level of computing competence in applications such as Word, Excel, PowerPoint, Project GIS knowledge.

### Age Limit :

Not more than 30 years on the date of closing of applications.

### Salary Package:

All-inclusive of Rs. 125,000 per month

### Nature of Appointment:

The appointment will be on contract basis with entitlement for EPF & ETF.

### Mode of Selection:

Selection will be through a structured interview preceded by a written examination to assess the skills of the applicants based on the criteria in table below. After initial screening, only short-listed applicants will be called for a written examination. Applicants who obtain the highest marks in the written examination will be invited for an interview.

Skill	Description
<b>Relevant Qualifications and Experience</b>	<ul style="list-style-type: none"> <li>Practical technical / engineering experience in the coordination and delivery of operational activities across a range of radio communication services</li> <li>Experience in the field of Telecommunications preferably in Radio Communication</li> <li>Understanding of new technologies in Telecommunications and Radio Communications</li> <li>Understands basic concepts of Telecommunication regulations and Radio Spectrum Management</li> <li>Strong organizational skills, with the ability to establish plans and priorities and implement activities effectively proven multi-tasking skills</li> <li>Effectiveness in managing human resources</li> </ul>
<b>Strategic Thinking</b>	<ul style="list-style-type: none"> <li>A proven ability to apply analytical and critical thinking techniques to solving problems quickly and effectively.</li> <li>Focuses strategically</li> <li>Harnesses information and opportunities</li> <li>Shows judgement, intelligence and common-sense</li> <li>Assesses the environmental impacts due to activities of the industry</li> </ul>
<b>Achievement of Results</b>	<ul style="list-style-type: none"> <li>Good technical and analytical problem-solving skills including a demonstrated ability to understand and analyze complex situations</li> <li>Demonstrates professional expertise</li> <li>Steers and implements changes and deals with uncertainties</li> <li>Proven ability to develop systems and implement</li> <li>Proven ability to use engineering principles to solve the issues of the industry &amp; public</li> </ul>
<b>Cultivation of Productive Relationships</b>	<ul style="list-style-type: none"> <li>Ability to work effectively with the people who have different professional &amp; social backgrounds (internal and external)</li> <li>Promotes and enhances team performance through working collaboratively and in cooperation with others to achieve goals</li> <li>Values individual differences and diversity</li> </ul>
<b>Demonstration of Personal Drive and Integrity</b>	<ul style="list-style-type: none"> <li>Demonstrates public service professionalism</li> <li>Engages with risk and shows personal courage</li> <li>Commits to work</li> <li>Displays resilience</li> <li>Understanding of professional codes of ethics for Engineers</li> </ul>
<b>Communication Ability</b>	<ul style="list-style-type: none"> <li>Ability to communicate clearly, concisely and effectively both orally and in writing</li> <li>Strong written communications skills with experience in drafting reports, concept papers</li> <li>Ability to understand and express views within a multi-disciplinary environment.</li> </ul>

### Duration of Contract :

One year with possibility of renewal for additional years.

### Merit Pool :

The selection process will establish a merit pool that may be used to fill similar positions within next 12 months.

### Mode of Application :

Application giving Full Name, Date of Birth, Age, Nationality, Educational Qualifications, Experience and any other details with names and address of two non-related referees should be forwarded to Director General, Telecommunications Regulatory Commission of Sri Lanka, No.276, Elvitigala Mw, Colombo 08 under registered cover along with copies of relevant certificates to reach on or before **11. 03. 2021** including the post for which the application is made on top left hand cover of the envelope.

**Director General**

**The Telecommunications Regulatory Commission of Sri Lanka**  
No.276, Elvitigala Mawatha,  
Colombo 08.