



Appendix – A

Education Qualification for Internship

Sr. No.	Designation	Nos.
1	GIS/Remote Sensing RS Engineer	2
2	Electronics & Electrical Engineer (VLSI/FPGA/SoC/Control)	1
3	Database Developer with GIS expertise	1
4	Network Engineer	1
5	RF Engineer	1
6	Data Analyst (R/Python)	1
7	Full Stack Developer	1
	TOTAL	8

Detailed Requirement

Sr. No.	Designation	No. of Personal	Job Description/ Skillset	Educational Qualification
1.	GIS & Remote Sensing RS Engineer	2	<p>Skillsets</p> <ul style="list-style-type: none"> • QGIS • Spatial Analysis • Image Processing • PostGIS • ArcGIS • GeoServer • Open Layers API • GDAL library • Remote Sensing • Python/C++ <p>Job Description</p> <ul style="list-style-type: none"> • Remote Sensing and GIS Data Analysis and Processing • Basic Knowledge in AI/ML-based data Processing • Database Design and GIS development • Project Impact Analysis using survey, GIS-RS, and available data • Experience in working .Net/ASP.Net Technologies, web services, Java Script, HTML5 development, & REST API • Strong knowledge of geodatabase management 	Final year M.Sc./ M.E./ MTech. In RS & GIS



			<ul style="list-style-type: none"> Remote Sensing and GIS Data analysis 	
2.	Electronics & Electrical Engineer (VLSI/FPGA/SoC/Control)	1	<p>Skillsets</p> <ul style="list-style-type: none"> C/C++ HDL Python Hardware Interfacing MATLAB Basic Electronics Eagle CAD/ Fritzing Control law Ansys PLC & SCADA Arduino <p>Job Description</p> <ul style="list-style-type: none"> Familiar with Electrical CAD tools, Allegro, Altium, Mentor, etc. Capable of basic lab skills - Soldering, debugging with Oscilloscopes, DMM, etc. Proficiency in PCB layouts and noise mitigation strategies. Strong problem-solving, technical, math, and science skills. Strong written and verbal communication. Hands-on experience in embedded systems. Designing, inspecting, testing, and updating electronic systems, components, equipment, and software. Showing initiative and keeping up with advancements in Electronics. Use debuggers, scopes, and emulators to resolve issues. Experience in antenna design and simulation for Cellular, WIFI, GNSS 	<p>Final year M.Sc./ M.E./ MTech. In Electrical, E&C, E&E, and E&TC Engineering</p> <p>Or</p> <p>Final Year B. Tech /B. E /B. Sc in the similar discipline</p>
3.	Database Developer with GIS expertise	1	<p>Skillsets</p> <ul style="list-style-type: none"> Data analytics & Processing Java/JS Python/ R / Ruby on Rails 	<p>Final Year M.Sc. in IT/M.Sc. in CS/ M.E./ MTech. In</p>



			<ul style="list-style-type: none"> • SQL • PostgreSQL • NoSQL • MongoDB • Hadoop • JSON/XML support for SQL • ETL - Data Pipeline <p>Job Description</p> <ul style="list-style-type: none"> • Design and create DB • Handle AI/ML-based code for DB • Estimate deadlines as good as you can • Write documentation • Define the data elements and data structure that our team should leverage to enable analytical and reporting capabilities for our business development team. • Design and influence operational best practices for reporting and analytics • Experience in handling Big Data • Preparing and delivering business reports to the senior management team • Help other teams complete their products 	<p>Software engineering/ Computer Engineering</p> <p>Or</p> <p>Final year B.Tech /B.E /B.Sc in the similar discipline</p>
4.	Network Engineer	1	<p>Skillssets</p> <ul style="list-style-type: none"> • Python/ipython/C/C++ • Data analytics & Processing • Networking Suite • NMS • Network security • Network Forensics • MPLS Tech • GNS3 • Comptia Network+ • CCNA/CCNP • IoT/ MQTT <p>Job Description</p> <ul style="list-style-type: none"> • Excellent Communication and Networking Skills • Experience with Switches and Routers • Juniper/ NetGear/ Cisco / D-Link/ TP-link product experience 	<p>Final year M.Sc. in IT/M.Sc. in CS/ M.E./ MTech. In Software engineering/ Computer Engineering/E&C, E&E and E&TC Engineering</p> <p>Or</p> <p>Final Year B.Tech /B.E /B.Sc in the similar discipline</p>



			<ul style="list-style-type: none"> • Python based Comm skills • MQTT protocol knowledge and Development • RTMP Project Development 	
5.	RF Engineer	1	<p>Skillsets:</p> <ul style="list-style-type: none"> • Simulation Tools (HFSS, CST Microwave Studio, ADS) • Knowledge of Wireless Communication Protocols (LTE, 5G, Wi-Fi, Zigbee, Bluetooth) • RF Circuit Design • Antenna Design and Tuning • Spectrum Analyzers • Vector Network Analyzers • RF Filter Design • Microwave Engineering • RF Testing and Measurement Equipment • Embedded Systems Knowledge • PCB Design for RF Systems <p>Job Description:</p> <ul style="list-style-type: none"> • Design, implement, and optimize RF systems and components, including antennas, filters, and amplifiers. • Work with cross-functional teams to develop and integrate RF solutions into wireless communication products. • Analyze and troubleshoot RF circuits to ensure optimal performance. • Conduct RF testing, measurement, and validation using relevant testing equipment like spectrum analyzers and vector network analyzers. • Perform simulations and modeling of RF circuits using simulation tools like CST, HFSS, or ADS. • Collaborate on the development of wireless communication systems, including LTE, 5G, and Wi-Fi technologies. • Conduct EMI/EMC testing and ensure designs meet regulatory standards. • Develop and maintain RF documentation, including design specifications, test procedures, and reports. 	<p>Final Year M.Sc. / M.E. / MTech. in Electronics, Telecommunication, RF & Microwave Engineering, or related field</p> <p>Or</p> <p>Final Year B.Tech / B.E. in a similar discipline</p>



			<ul style="list-style-type: none"> Keep up-to-date with advancements in RF technologies and integrate new techniques into product development. 	
6.	Data Analyst (R/Python)	2	<p>Skillsets</p> <ul style="list-style-type: none"> Python/ipython/C/C++ Data analytics & Processing Java/JS MATLAB R Ruby on Rails SQL <p>Job Description</p> <ul style="list-style-type: none"> Design and create APIs for data analytics & processing Back-end code creation Handle AI/ML-based code in the back-end Create and update Back-End code collections Regularly Estimate deadlines as good as you can Write and maintain public packages Create back-end functionalities Write documentation Define the data elements and data structure that our team should leverage to enable analytical and reporting capabilities for our business development team. Design and influence operational best practices for reporting and analytics Preparing and delivering business reports to the senior management team Help other teams complete their products 	<p>Final Year M.Sc. in IT/M.Sc. in CS/ M.E./ MTech. In Software engineering/ Computer Engineering/E&TC Engineering</p> <p>Or</p> <p>Final year B.Tech /B.E /B.Sc in the similar discipline.</p>
7.	Full Stack Developer	1	<p>Skillsets</p> <ul style="list-style-type: none"> JAVA JavaScript SDK/ ADK Kotlin CSS HTML5 Python/C++ 	<p>Final Year M.Sc. in IT/M.Sc. in CS/ M.E./ MTech. In Software engineering/ Computer Engineering</p>



			<p>Job Description</p> <ul style="list-style-type: none">• Design and create APIs• The back-end and Front-end design and creation• Handle AI/ML-based code in the back-end• Create and update Postman collections• Estimate deadlines as good as you can• Write and maintain public packages• Create back-end functionalities• Write documentation• Implement designs• Help other teams complete their products	<p>Or</p> <p>Final Year B.Tech /B.E /B.Sc in the similar discipline</p>
--	--	--	---	---

