

Opportunities for Students

Alcatel-Lucent Romania Summer Internship Projects 2014

You're a student who's motivated to get real-world experience?

You want to show what you know, put your knowledge to work, add new skills and contribute to something big?

Alcatel-Lucent is the place for you!

At Alcatel-Lucent you will have many opportunities to show your talent. Each student will be given an induction into the company.

Get on the Summer Practice with Alcatel-Lucent.

Send your CV indicating your preferred Summer Practice Project at practica.studenti@alcatel-lucent.com

Summer Internship Project Title	Short Description of the project	Technical Requirements	Department	details
Wireless logistics	Tools. Process. Data base. Storage.Inventory.	MPT students 3rd year of study	Wireless	1 session of 3 weeks (6 / 8 hours/day) seats available: 4 timeline: 22.07 - 09.08
LTE Introduction	LTE basics and telecom principles	ETC	Wireless	1 or 2 sessions of 3 weeks (6 / 8 hours/day) seats available: 10 timeline: starting first week after summer session
LTE applied	LTE (4G) key concepts, architecture & radio principles How to deal with SW bugs? TEST team way of work (types of tests, automation, tools...)	ETC (3rd year preferred)	Wireless	1 or 2 sessions of 3 weeks (6 hours/day) seats available: 4 timeline: TBC
Wireless Intranet Framework	An web based application will design and write, a framework which help us with the future updates on WLS web pages. Desired skills: Php, Mysql, Java Script, Ajax	AC, Info, ETC	Wireless	3 sessions of 3 weeks (6 hours/day) seats available: 9 timeline: TBC
Get to Know Wireless Networks	a) Develop & present a study about architecture of wireless mobile (for the 1st year students) b) Develop & present a study on radio conditions & HO impact on end user in Wireless networks (LTE, WCDMA and/or GSM) (for the 2nd year students) c) Develop & present a study about 4G and SC introduction impact on legacy technology (for the 2nd year students)	ETC	Wireless	1 session of 3 weeks (6 / 8 hours/day) seats available: 5 timeline: 22.07 - 27.08
Wireless Performance Applications	Improve & upgrade existing applications used within Wireless activities to cope with latest features & technologies (C#)	AC	Wireless	1 session of 3 weeks (6 / 8 hours/day) seats available: 3 timeline: 22.07 - 27.08
Continuous Integration in LTE OAM	Automatic chain after delivery: build-> test & run quality tools->results Technologies used: Jenkins, ET, python	ETC/AC	Wireless	1 session of 3 weeks (6 hours/day) seats available: 2 timeline: TBC
METRO LTE	LTE basics and telecom principles Small Cells particularitys	ETC	Wireless	one session of 3 wks (6 / 8 hours/day) seats available: 10-15 timeline: TBC
ND Tools	Network Design process; Java tools	AC, Info	Wireless	one session of 3 wks (6 / 8 hours/day) seats available: 4 timeline: TBC
METRO LTE 2	Automation scripts	AC, Info	Wireless	one session of 3 wks (6 / 8 hours/day) seats available: 4 timeline: TBC
eNodeB booking	Reservation tool for eNodeB equipment (using PHP, HTML, JavaScript, mySQL)	AC/ETC	Wireless	one session of 3 wks (6 hours/day) seats available: 2 timeline: TBC
Design ALU Wireless R&D internal tools	Design features for ALU wireless R&D internal tools(using PHP, JavaScript, mySQL, Ajax, Jquery)	AC / programing skills from High school or faculty	Wireless	3 sessions of 3 wks (6hours/day) seats available:4 timeline: W29-W31 / W32-W34 /W34-W36
Evolution of Automatic Test Tool - Project 1	Evolution of automated testing using a NPO framework for automatic tests	Computer Science 2 nd year+, Java	Wireless	one session of 3 wks (6 hours/day) seats available: 1 timeline: TBC
Evolution of Automatic Test Tool - Project 2	Update NPO GUI automatic tests in order to be used on NPO client installed with the last versions of java	Computer Science 2 nd year+, Java	Wireless	one session of 3 wks (6 hours/day) seats available: 1 timeline: TBC
LTE eNB OAM	Migration tools: develop tool to validate implemented migration rules (scripting)	AC, Info	Wireless	one session of 3 wks (6 hours/day) seats available: 2 timeline: TBC
LTE eNB OAM	Trace parser for PM counters analysis (C++)	AC, Info	Wireless	one session of 3 wks (6 hours/day) seats available: 1 timeline: TBC
GNO KPN	Tools. Process. Data base. Storage.Inventory.	MPT students 3rd year of study	GNO - KPN Avanti	1 session of 3 weeks (6 / 8 hours/day) seats available: 8 timeline: 10.07 - 01.09
IP Core Basis	IP Core network maintenace - usage of UNIX/LINUX cammands in order to retrieve remote inventory of equipments. Create a versatile database with the informations	Informatics or A/C student year 1-2	IP RT PM	1 session 4-6 hours / day seats available: 1 timeline: 10.07 - 15.07
CORE network platform R4 platforms	The students will improve their technical and soft skills. They will gain knowledge of CORE network configuration (MSC-S, MGW, GMSC, MUX) by assisting at theoretical and practical trainings.	MPT students 3rd year of study (Telecommunication)	TS&FE	1 session of 3 weeks (6 / 8 hours/day) seats available: 8 timeline: 10.07 - 01.09
3G networks architecture comparison	The students will gain knowledge in 3G architecture of Ericsson and Huawei networks, their configurations and the software and hardware differences between them.	Telecommunication students	TS&FE	2 sessions of 4 weeks (4-6 hours /day) seats available: 1 timeline: 01.07 - 31.08
Alcatel Lucent 2G and 3G networks	The students will gain knowledge in Alcatel Lucent 2G and 3G networks architecture, their configurations and the software and hardware differences between them.	Telecommunication students	TS&FE	2 sessions of 4 weeks (4-6 hours /day) seats available: 1 timeline: 01.07 - 31.08
Traffic simulator load&perf testing	Implementation of traffic simulator for load and performance testing activities related to PRBT-TQS module	UPT students 3rd year of study	IPP - IMS BU	1 session of 3 weeks (6 / 8 hours/day) seats available: 2 timeline: 22.07 - 09.08
Trace mask for sensitive information	Implement a trace mask mechanism for sensitive information generated by PRBT applications	UPT students 3rd year of study	IPP - IMS BU	1 session of 3 weeks (6 / 8 hours/day) seats available: 1 timeline: 22.07 - 09.08
Critical resources monitoring tool	Critical resources monitoring tool for Unix (Solaris and Linux) based platforms	UPT students 3rd year of study	IPP - IMS BU	1 session of 3 weeks (6 / 8 hours/day) seats available: 1 timeline: 22.07 - 09.08
Tools for alarm management	1. Using Corba for alarm management (Java, Eclipse, Corba, client-server) 2. Using shell scripts for alarm management (Shell scripting, Unix)	UPT students 3rd/4th year of study	OSS	1 session of 3 weeks (6 / 8 hours/day) seats available: 3 timeline: 01.07 - 30.08
Online Chat with Java Servlet	Create a chat web-application using Java Servlet with a HTML + Ajax UI to allow chat between multiple users ((Java, HTML, CSS, JS)). Objectives : Gain experience with Java Servlet, Ajax, Java Webapp Containers (Tomcat), Maven, etc	UPT students 3rd year of study	IPP - DMP	1 session of 3 weeks (6 / 8 hours/day) seats available: 2 timeline: 01.07 - 31.07
WebApplication for running tasks on a server like running it in console	Create a WebApplication with J2EE, JavaServerFaces (PrimeFaces if possible), database, to can be used to execute tasks from a server, configuration pages for tasks, page to display progress of the task. Possible tasks: copy specific files, running a .sh/bat file, running a report written with a report engine (JasperReports, BIRT)	UPT students 3rd year of study	IPP - CXS PS	1 session of 3 weeks (6 hours/day) seats available: 4 timeline: 2 seats between 01.07 - 31.07 2 seats between 15.08 - 15.09
Advanced IP & LTE Learning	Learning and development trach dedicated for students. The program will ends with a paper and exam, quantifying the knowledk=ge aquired.	UPT students	AL University	1 session of 3 weeks (6 hours/day) seats available: 12 timeline: 18.08 - 05.09