BARCELONA

Field	Organization	Placement Responsibilities
Biomedical Engineering	Medical Technology Startup	- Design of medical devices - Research on fluorescent testing - Provide support to the engineering department
Biomedical Engineering	Healthcare Technology	- Assisting in the design of a molecular diagnosis sensor- Studying the process of inkjet printing lenses onto pixels- Assisting in general Research and Design work to aid the company's growth
Biomedical Engineering	Legal Firm	- Provide scientific support for the development of a prenatal clinical analysis company (market, competitors, innovation ..) - Help a medical endeavor the company is currently involved with. The project is carried out in collaboration with SYNLAB Labco and specializes in the sector of genetical engineering and disease detection on fetus stage.
Chemical Engineering	Engineering and Health	- Assist in group projects focused on the synthesis, characterization and application of engineered inorganic nanoparticles- Approach with comprehensive view of nanoparticle engineering - Specific tasks given upon arrival
Chemical Engineering	Eco-Innovation Group	- Collaborate in a European project where the main objective of promoting the reuse of bottles in the wine industry to reduce the production of waste, greenhouse effect gases, and cost savings for wine producers
Chemical Engineering	Dosing Pumps Manufacturer	- Through a mathematical simulator that they've made from Scilab (similar to Matlab), characterize a family of dosing pumps according to the nature of the fluid and the installation (density, viscosity, pipes). - Generate technical documentation as a summary of the study. - Support the engineering team. - Showing throughout the whole manufacturing process.
Chemical Engineering	Biotechnological Company	- Update the database with contacts of people, companies, institutions in India, Korea and Japan- Updating to reflect the current situation of projects, molecules offered and molecules demanded- Tracking and updating the types of chemical reactions more demanded- Marketing studies of the situation of chemical business in India/Japan/Korea- Marketing studies of the situation of pharmaceutical business in India/Japan/Korea- Design and preparation of the marketing strategy plan in India/Korea/Japan- Edition of the commercial literature tools to be launched- Update of the website- Collaboration in the preparation and edition of technical and commercial offers for Indian customers- Visit to the lab facilities to familiarize with most common technologies and techniques
Chemical Engineering	Nanomedicines & Drug Delivery Solutions	You will be involved in scale-up activities under the guidance of the Engineering Department of company, in the frame of a project funded by the H2020 program of the European Commission and aiming to foster the development of a nanoformulation to treat Fabry Disease near to the clinics. You will spend part of a group research, assisting and performing scale-up experiments, and characterizing the physic-chemical properties of the materials obtained (particle size distribution, morphology, composition...) by several techniques, such as dynamic light scattering or cryo-TEM.
Civil Engineering	Architectural and Construction Consultancy Firm	- Collaboration on the development of a BIM project focused on the intern specialty (MEP, structures, cost and time planning, etc.) - Research on BIM uses and interoperability between BIM softwares. - Participating in exhibitions and events that take place during the internship - BIM office assistant (general office and administrative workload)
Civil Engineering	Marine Structure Design	- Creating autocad drawings for marina layout and floating pontoons proposals. - Controlling the production of accessories to the workplace - Preparing marketing materials for prospects
Civil Engineering	Energy Systems	- Evaluate potential business models for provision of services through the UK branch- Develop innovate tools for Energy Saving Company (ESCO) model for the optimization of in-flight operations for surrounding airports
Civil Engineering	Transportation Engineering	- Evaluating simulations in order to predict the demand of taxies with in Barcelona - Gather information on vital transportation spaces while creating a predictive map of taxi transportation

Civil Engineering	Energy Services	- Identify TOP Partners- Identify TOP Customers- Customer lifetime value VS Customer Acquisition Cost: global, UK, Spain and Rest of the World.- Churn by Account Size (in revenue and data-points) - Classify customers by Sector and benchmark the consumption
Civil Engineering	Architectural and Construction Consultancy Firm	- Initial training in BIM+ArchiCAD to understand and learn how to work with BIM Technology. - Collaboration on the development of a BIM project focused on your personal skills (MEP, structures, cost and time planning, etc). - Research on BIM uses and interoperability between BIM softwares. - BIM office assistant (general office and administrative workload)
Civil Engineering	Environmental Engineering Firm	- Investigate the impact of Shale Gas on the major gas and electricity markets in the USA and Europe- Analyze the current stage and predicted evolution of the energy markets. Analysis of agent rankings - Support the integration of energy or auditing processing - You will receive one week of training on the energy markets in Spanish
Civil Engineering	Environmental Engineering Firm	- Market analysis of IT Energy Management Systems in EU and US markets- Identify main competitors within market- Benchmarking of main identified IT Energy Management Systems and classification by features- Roadmap proposal for future market expansion- Support CEO and Board of Directors on daily tasks- Collaborate with R&D team regarding the prioritization of new development
Civil Engineering	Environmental Engineering Firm	- Optimize the energy production processes - SCADA integration – Energy Intelligence – ERP - Analyze the standard packages of the market (Siemens, Schneider, Wonderware, Rothwell) - Model tendency project keeping in mind the autoconsumer and renewable energy *pending regulation* - Support projects of energy and audit integration- One week of energy management training (Spanish)
Civil Engineering	Civil Engineering Company	- Provide support in various projects according to the needs of the company upon your arrival. - Working on AutoCad drawings - Assist the engineering department - Daily administrative tasks
Civil Engineering	Power Grids	- Testing and evaluating irid's products hardwares and softwares in order to improe technical Manuals. - Technical support to test task products, test environment preparation, test procedure execution, etc.)- Proficiency English revision of the commercial/sales documentation (documents and presentations) - Marketing support task
Civil Engineering / Structural Engineering	Architecture & Structural Consultancy	- Collaborate in different projects: - Project of structures for Escuela Maquinista - Project of structures for an offices building - Structural diagnosis of a building located in Paseo del Born 19 - Structural consolidation of buildings in the Montjuïc cemetery
Computer Science	Software startup in healthcare	The intern will be responsible for building a search engine based on an index of scrapped data from a dictionary, specialized in the medical field (psychosomatic diagnostics, and related). The search engine is meant to be integrated into our AI in order to provide automatic look-ups when encountering key words in text data provided by our clients.
Computer Science / Computer Engineering	Technology Provider Startup	- Assist in product development - IT and blockchain focused (priority): - Data analysis and develop forecasting algorithm of EV charging patterns - IoT client optimization and security - Optimization of distributed system architecture - Integration of open standard charging protocols (OCPP) into existing prototype - Design and development of thermal load control algorithm
Computer Science / Computer Engineering	IT Company - ICT Specialization	- Software development (.net, java, php ...). - Corrective and evolutionary maintenance for applications.
Computer Science / IT	IT Service Provider	- Creation of layouts for webs in HTML, Javascript and CSS - Development of internal projects - Business development to identify new leads - Support of management in the daily activities - Research of new technologies - Creation of strategies for online marketing like newsletters and adwords

Computer Science / IT	Student Learning Platform	- Develop an Android App of the company's existing Web Platform. - More to be determined with your supervisor on your first day.
Computer Science / IT	Playtesting Platform for Game Developers	- Product development - Web support - Data analysis
Computer Science / Software Engineering	Alternative Energies Company	- Work on a mathematical model made with Mathlab, to complement this model and adapt it to the requirements of the company. - Collaborate with the IT department in application programming, specifically with the visualization dashboard and the relevant algorithms.
Computer Science / Software Engineering	eSports & Online Gambling Company	- Giving punctual support to the engineers and work on Marketing campaigns. - Community Manager - Communication with influencers
Computer Science & IT	App for Roommate Matching (Real Estate)	- Help improve the website, that offers the functionalities of the existing app - Run tests on the platform - Improve user acquisition methods
Electrical Engineering	Electricity and High Voltage Control Systems	- Comparative study of solar plant management softwares - More to be confirmed with your supervisor on your first day
Electrical Engineering	Green Energy Efficiency Services	- Support in technical projects - Develop new working protocols - Possible development of web applications focused on energy saving.
Electrical Engineering (Placement falls under multiple fields)	Invention Platform	- Create different weekly projects using company product - Engage the community - Present projects weekly to clients/investors - Designing, Manufacturing
Engineering Management	Sports Technology Company	- Project management of REEN and APP Accessories - More tasks to be determined with your supervisor on your first day.
Industrial Engineering	Architecture Firm	- Editing digital images - Drawing plans - Implement web pages - Blog content writing - Knowledge of AutoCad and advanced - Photoshop skills
Industrial Engineering	Engineering and Consulting Services	- Segment benchmarking- Conduct social media analysis and identifying trends- Compile competitors analysis and research h- Gathering electronic media content (articles, websites, "daily thoughts", videos)- Manage all content- Prepare for Summit
Industrial Engineering	Architects and Structural Consultants	- Supporting a project for a building in Eixample district in Barcelona (Structural design and reinforcement of that building) - Supporting a project for a building in Teià (Barcelona) - Supporting a project for a building in Esplugues de Llobregat (Barcelona) - Follow up work for a structural reinforcement project at Calle Tres Senyores in Barcelona - Drawing plans of these projects - Writing up notes and summaries of the projects
Materials Science / Engineering	Digital Manufacturing Technology Company	- You will be part of the engineering team who is working on the development and implementation of Moveo 2, an ambitious project of a fully Open Source 3D printed robot arm. - Support to the engineering team.
Mechanical Engineering	Commercial UAV Startup	- Assist on the design for manufacturing phase on the product (UAV that the company is developing) - Assist on the development for the manufacturing plan. - Design the molds and tooling for a single or multiple parts of the product (i.e.: the right wing structure, the tail structure, the landing gear, the left aileron, etc) - Manufacturing the molds and tooling previously designed
Mechanical Engineering	Manufacturing	- Design, calculation, and elaboration of manufacturing plans of the port structure that they will use for a project in France- Elaborate the manufacturing plans of standard profiles - Commercial client tasks for Italy and France- Technical visits to some photovoltaic plant installations - Elaborate the manufacturing plants of a project in Romania - Help out with day to day operations in the business
Mechanical Engineering	Online Retail	- Designing web platform in English and identifying market volume - Assisting in long term marketing goals and projects- Actualize the development of online sales action strategy plans- Assist in daily business procedures and systems

Mechanical Engineering	Engineering Company	- Intensive use of their 3D scanner (2) Use of the company's cutting edge, specialized engineering software: Inventor and Polyworks, which is specific for real parts, not just designed ones (such as the ones built by means of CAD). The company would train the student on them. (3) Proofreading of technical texts in English
Mechanical Engineering	Gastronomic Technology	- Know the uses of new technologies in gastronomy; 3D printing, SLS, laser cutting and its current applications in internship. - Develop a personal project that marries gastronomy and technology (robotics if it is your best field). - Optimize the technological tools of work available to the firm. - Contribute its vision in innovation to the ecosystem of gastronomy.
Mechanical Engineering	Mechanical Engineering Company	- Participate in the development of a new product for the company - More projects to be determined with your supervisor
Mechanical Engineering	Pet Product Design Company	- Provide support with the industrial design of a pet wearable that is being developed now by the company - Assisting in the development of company hardware - Daily administrative tasks
Mechanical Engineering	Biotech Research Group	- Run gait simulation tests. - Establish new algorithms for multi-modality image registration and fusion, in order to combine information from different imaging modality and/or different time points. - More tasks to be determined with your supervisor on your first day.
Mechanical Engineering	Biotech Research Group	- The main project will be to run mechanical simulations to identify possible weaknesses in our eAXON implants that may result in mechanical breakdowns. - More tasks to be determined with your supervisor on your first day.
Mechanical Engineering	Naval Engineering Firm	Company that work on the design of a rigid wingsail technology applicable to the maritime transport in order to reduce the fuel consumption and the emissions level. Support to the 3D design and modelling of the rigid wingsail structure. Structural design and load/stress calculation of the rigid wingsail structure
Mechanical Engineering/ Biomedical Engineering	An Orthopedic Institute	- Provide support with the development and research of the manufacture of orthoses and prosthesis by computer project (CAD-CAM) - Provide assistance in dealing with patients using prostheses
Robotical Engineeering	Industrial Technology Centre	- Implementation of Monocular Camera Realtime Multi-Person Pose Estimation for HumanRobot Interaction. - Implementation of Object and Person Traking for HumanRobot Interaction by using OpenPtrack and ROS. - Preparation and improvement of Industrial Robots laboratory training material
Software Engineering	Mobile Advertising	- Help us increase the scalability of our software solution, either by increasing efficiency of our mathematical operations or allowing it to run on the Amazon Cloud and expand or decrease the number of required servers automatically and based on demand.- Help us shift our database architecture, migrating some of the data storage and analysis from SQL databases to NOSQL modes. - Help us improve the design of our algorithms that make 100ms decisions about prices to pay and ads to serve. This includes design, implementation and testing of proposed solutions.
Software Engineering	Software Engineering Company w/ IoT (Internet of Things) focus	- Simulating air flow inside an electronic container case - Assisting the supervisor with his projects - More to be determined on your first day
Software Engineering	Engineering Development	- Support in the marketing and communication strategy development for the company- Support in the international growth and development- Assist on innovative project management in the recruitment and fund management for new technology.- Work to finance R + D +I business ventures and outreach programs- Organize both internal and external events in which KIM participates
Structural Engineering	Architectural & Construction Consultancy Firm	- Construct 4D and 5D solutions to prepare an innovative workflow- Learning and using a variety of software- Preparing and producing systematics reports