	GROUP NAME	PI	CONTACT EMAIL	DEPARTAMENT	RESEARCH LINES	GROUP WEBSITE
ELECTRIC VEHICLE	ELEKTRIKER	Albizu Florez, Igor Fernandez Herrero, Elvira	igor.albizu@ehu.eus elvira.fernandezh@ehu.eus	Electric engineering	1. Application of the dynamic line rating to the power system congestion management. 2. Dynamic line rating monitoring sytems. 3. Dynamic line rating forecasting. 4. Simulation of the power system operation using DIgSILENT PowerFactory	--------------------------------------
	MATERIALS + TECHNOLOGIES (GMT)	Eceiza Mendiguren, Maria Aranzazu	arantxa.eceiza@ehu.eus	Chemical and Environmental Engineering	1. New Sustainable Materials for application in eletric vehicle components.	https://www.ehu.eus/en/web/gmt/
	GISEL	Eguía López, Pablo Zamora Belver, Inmaculada (CoPI)	pablo.eguia@ehu.eus inmaculada.zamora@ehu.eus	Electric engineering	1. Integration of EV in electricity systems. 2. EV battery management. 3. DC circuit breakers for battery systems	https://www.ehu.eus/es/web/gisel/inicio
	INTELLIGENT SYSTEMS GROUP	Lozano Alonso, Jose Antonio	ja.lozano@ehu.eus	Computer Science and Artificial Intelligence	The group has experience in several áreas related with the electric car. We mainly develop and apply artificial intelligence technique in problems closely related with the electric car. The group has particularly worked in two problems: 1. Localization of electric car chargers. Given some legal and company constraints and the number of chargers to be deployed, we have developed several methods to optimize the location of the electric chargers maximizing several criteria, particularly the proximity of the clients to these chargers. 2. Energy demand prediction. In collaboration with researchers from BCAM, we have developed a new algorithm to predict the demand of energy of a city. This method could be adapted to predict the demand of energy because of electric cars.	http://www.sc.ehu.es/ccwbayes/index.html
	APPLIED ELECTRONIC RESEARCH TEAM (APERT)	Martín González, Jose Luis	joseluis.martin@ehu.eus	Electronic Technology	1. **"Power and control circuits for Energy Converters"**. This research line is oriented to the design and study of power converters for electric power generation, conversion, storage and transmission. In this line, we work on **electronics for the traction and charging infrastructure of the Electric Vehicle.** This research line studies and develops improvements on the efficiency, control and cooling systems of power inverters and converters used in both, the traction system and the charging infrastructures of the electric vehicle.	https://www.ehu.eus/en/web/apert/start
	MATHMODE	Pardo Zubiaur, David	david.pardo@ehu.eus	Math	The efficient mathematical formulation of a multi-objective automatic optimization process for the design of electric motors: 1) increase the efficiency of the e-motor; 2) reduce the costs of the active parts, and 3) reduce the NVH (noise, vibration and hardness). The optimization process requires multi-physics simulations, based on advanced numerical schemes for the arising mathematical models.	https://sites.google.com/view/mathmode/members
	MATERIALS AND SOLID-STATE CHEMISTRY	Rojo Aparicio, Teófilo	teo.rojo@ehu.eus	Organic and Inorganic Chemistry	1. High enery density lithium-ion batteries	--------------------------------------