

## Postdoctoral Position in high energy electrodes for advanced batteries

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CIC Energigune is looking for a Post-doctoral Researcher to perform applied research on Energy Storage devices within the framework of a European project.

### Job function:

- Preparation of composites and laminates.
- Cell assembly, electrochemical and physical characterization.
- Study of the interface problems between different components of the cell.
- Publish in peer reviewed journals; contribute to scientific research papers, reports, review articles; present oral reports.

### Qualification requirements:

- PhD in Chemistry or Materials Science.
- Experience on the preparation of composites and anodes for batteries.
- Experience on coin-cell assembly and battery testing.
- A team player who can collaborate with other groups, technical centers, and industries.
- Good verbal and written communication skills in English

### What we offer:

We are offering a 36 months contract and advantageous professional development opportunities.

In addition to the appeal of the entire project, the CIC Energigune offers a competitive basic salary augmented by important benefits such as special conditions for a private health insurance that compare favorably with the best global private and public institutions.

The Foundation will also help smooth the transition for you and your family, providing a welcome program that offers accommodation and addresses other aspects to help you integrate into the local environment.

All applicants are invited to submit detailed curriculum vitae and 2 reference letters at [www.cicenergigune.com](http://www.cicenergigune.com).



## **Postdoc Position in composite electrolytes for all-solid-state batteries**

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CIC EnergiGUNE is a well-known energy research center based in the Basque Country of Spain. Its mission is to play a leading role on the international stage in the field of energy storage technologies and contribute to the industrial competitiveness of Basque Country. CIC has a world-class research facility, cutting-edge equipments, an experienced management team, and a scientific committee composed of prominent scientists, entrepreneurs, and industrial experts. ([www.cicenergigune.com](http://www.cicenergigune.com)).

CIC EnergiGUNE is seeking a Researcher for the development of new composite (polymer and ceramic)-based electrolytes. The postdoc will work in collaboration of the Polymer and ceramic Research lines and will integrate the group of Cells and Electrochemistry.

### **Job function:**

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- Processing and characterization of polymer composite electrolytes
- Proof of concept study of solid state lithium batteries
- Characterize the materials using analytical instruments.
- Collaborate in writing proposals to secure funding from government and industrial sources.

### **Qualification requirements:**

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- PhD in Materials Science, Polymer Chemistry, Electrochemistry or related fields.
  - Training and expertise in processing polymer-based materials, composite materials.
  - Experience in Electrochemical (Galvano static cycling, CV, impedance measurements etc.), thermal (DSC, TGA) and spectroscopy (FTIR, Raman) and microscopy (scanning electron Microscopy) techniques.
  - A team player who can collaborate with other groups, technical centers, and industries.
  - Good verbal and written communication skills in English
- Experience in solid-state batteries would be an advantage.

### **What we offer:**

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We are offering a 24 month position within interesting projects in the field of solid state batteries, and important professional development opportunities.

In addition to the appeal of the entire project, the CIC EnergiGUNE offers a competitive basic salary augmented by important benefits such as special conditions for a private

health insurance that compare favorably with the best global private and public institutions

The Fundación will also help smooth the transition for you and your family, providing a welcome programme that offers accommodation and addresses other aspects to help you integrate into the local environment.

All applicants are invited to submit detailed curriculum vitae at <http://www.cicenergigune.com>

The selection process ends once a candidate is selected.

CIC EnergiGUNE is committed to affirmative action, equal opportunity and the diversity of its workforce.

## Postdoc Position in Li-S line and advanced interfacial analysis group

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CIC Energigune is a well-known energy research centre based in the Basque Country of Spain. Its mission is to play a leading role on the international stage in the field of energy storage technologies and contribute to the industrial competitiveness of Basque Country. CIC has a world-class research facility, cutting-edge equipments, an experienced management team, and a scientific committee composed of prominent scientists, entrepreneurs, and industrial experts. ([www.cicenergigune.com](http://www.cicenergigune.com)).

CIC Energigune is seeking an experienced Researcher to engage in the Li-S line and Advanced Interfacial Analysis Research Group

### **Job function:**

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Proof of concept study of Li-S solid state batteries

Perform electrode & solid electrolyte (mainly polymer-based) preparation, cell fabrication, and electrochemical testing of the materials.

Characterize of metal anode surface, electrolyte/electrode interfaces and understand SEI formation.

Collaborate in writing proposals to secure funding from government and industrial sources.

### **Qualification requirements:**

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- PhD in Materials Science, Solid-state Chemistry, Inorganic Chemistry, Chemical Engineering, Electrochemistry or related fields.
- Training and expertise in full electrochemical characterization of positive and negative electrodes.
- Experience in analysis of Electron diffraction data, Transmission and Scanning electron Microscopy.
- Experience with surface analysis techniques such as Raman and photoemission spectroscopy. Knowledge of surface modification and functionalization processes will be an asset.
- A team player who can collaborate with other groups, technical centers, and industries. Good verbal and written communication skills in English
- Experience in solid-state polymer electrolytes and energy storage technologies (e.x. Li-S systems) would be an added advantage.

## **What we offer:**

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We are offering 36-month position in the field of solid state batteries and focused in the study of the interfacial phenomena, with the possibility to participate in public and private research projects and important professional development opportunities.

In addition to the appeal of the entire project, the CIC Energigune offers a competitive basic salary augmented by important benefits such as special conditions for a private health insurance that compare favorably with the best global private and public institutions

The Foundation will also help smooth the transition for you and your family, providing a welcome programme that offers help for accommodation and addresses other aspects to help you integrate into the local environment.

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## **Postdoctoral Position in Solid State Batteries, Electrochemical Energy Storage Area**

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The Solid State Electroactive Materials research group at CIC energigUNE is seeking for a motivated Postdoctoral researcher to work on Energy Electrochemical Storage devices within the framework of applied fundamental research activities on solid state batteries.

### **Job function:**

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The candidate will join a young and highly motivated team for the development of solid state battery components and their integration in solid state cells. The researcher will be in charge of preparing materials and cells; understanding component interactions; and identifying, monitoring and optimizing key parameters for best performance.

Additional tasks include:

- Writing of technical reports and scientific publications.
- Monitoring the work plan of his/her individual research project, making sure that milestones are achieved and tasks are finalized in a timely manner.
- Actively participating in research meetings, seminars, etc.
- Assisting in the training and supervision of Students.

### **Qualification requirements:**

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PhD in Chemistry, Materials Science or related field with excellent skills in:

- Synthesis of inorganic compounds.
- Physicochemical and structural characterization of materials and cell components using various analytical techniques (XRD, SEM, Raman, DSC/TG, FTIR, etc.).
- Integration of electrode materials in solid-state electrochemical cells.
- Advanced electrochemical characterization (e.g. cyclic voltammetry, galvanostatic charge-discharge tests, electrochemical impedance spectroscopy)
- Inter-personal and communication skills to work effectively within a multi-disciplinary team. A team player who can collaborate with other groups, technical centres, and industries.
- Good verbal and written communication skills in English

### **What we offer**

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We are offering a 3 year contract and advantageous professional development opportunities within interesting projects in the field of solid state batteries, and important professional development opportunities.

In addition to the appeal of the entire project, the CIC energigUNE offers a competitive basic salary augmented by important benefits such as special conditions for a private health insurance that compare favorably with the best global private and public institutions.



The Foundation will also help smooth the transition for you and your family, providing a welcome program that offers accommodation and addresses other aspects to help you integrate into the local environment.

All applicants are invited to submit detailed curriculum vitae and 2 reference letters at <http://www.cicenergigune.com>.

The selection process ends once a candidate is selected

## Postdoc Position in Li-S line and advanced interfacial analysis group

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CIC Energigune is seeking an experienced Researcher to engage in the Li-S line and Advanced Interfacial Analysis Research Group

### Job function:

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Proof of concept study of Li-S solid state batteries

Perform electrode & solid electrolyte (mainly polymer-based) preparation, cell fabrication, and electrochemical testing of the materials.

Characterize of metal anode surface, electrolyte/electrode interfaces and understand SEI formation.

Collaborate in writing proposals to secure funding from government and industrial sources.

### Qualification requirements:

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- PhD in Materials Science, Solid-state Chemistry, Inorganic Chemistry, Chemical Engineering, Electrochemistry or related fields.
- Training and expertise in full electrochemical characterization of positive and negative electrodes.
- Experience in analysis of Electron diffraction data, Transmission and Scanning electron Microscopy.
- Experience with surface analysis techniques such as Raman and photoemission spectroscopy. Knowledge of surface modification and functionalization processes will be an asset.
- A team player who can collaborate with other groups, technical centers, and industries. Good verbal and written communication skills in English
- Experience in solid-state polymer electrolytes and energy storage technologies (e.x. Li-S systems) would be an added advantage.

### What we offer:

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We are offering 36-month position in the field of solid state batteries and focused in the study of the interfacial phenomena, with the possibility to participate in public and private research projects and important professional development opportunities.

In addition to the appeal of the entire project, the CIC Energigune offers a competitive basic salary augmented by important benefits such as special conditions for a private health insurance that compare favorably with the best global private and public institutions



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