

**BECAS DE COLABORACIÓN – JAE INTRO 2020
EN CENTROS DE EXCELENCIA SEVERO OCHOA – CSIC**

TÍTULO DEL PROYECTO:

Materials for IoT batteries

IP:

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**RESUMEN DE LA PROPUESTA:
(Máximo 500 caracteres)**

The project objective is the development of low voltage battery concepts particularly targeted for coupling with electronics used in Internet of Things sensors.

Research will involve synthesis of materials using mostly solid state chemistry methods and characterization using diverse techniques (diffraction, microscopy) followed by electrochemical tests at diverse cycling rates and temperatures. Finally, laboratory battery prototypes will be assembled with the materials exhibiting most suitable performance, and tested under close-to-application conditions.

Applicants should have a degree in chemistry, physics, materials science, nanotechnology etc. Academic knowledge of solid state chemistry and electrochemistry will be highly appreciated as well as good communication skills, team spirit, and interest in interdisciplinary topics.