

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

TÍTULO DEL PROYECTO:

Characterization of high temperature superconducting layers by transmission electron microscopy

IP:

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

Study of the microstructure of high temperature superconducting films by Transmission Electron Microscopy to correlate it with physical properties and growth parameters. Samples will be grown from our novel method [Nature Communications 11, 334, 2020]. The student will get familiar with TEM, energy dispersive mode (EDX), and electron transparent sample preparation. Images will be analyzed with software packages able to identify phases by interplanar distances, composition and orientation.