



## **POSITION: SCIENTIST. COCRYSTAL SCREENING**

A postdoctoral Researcher position is offered by CIRCE Crystal Engineering. This position is located at the Research and Development Laboratory of CIRCE (Barcelona Science Park, Spain), and may be funded through a TecnioSpring Industry fellowship.

CIRCE's project "Screening, characterization and evaluation of nutraceutical ingredient cocrystals" requires an expert in Solid-State Chemistry. The candidate will identify and characterize new cocrystals together with the assessment of their physicochemical properties.

### **Major duties/responsibilities:**

- Proactively lead the discovery of new solid forms of selected active ingredients (and suggest new potential candidates according to the company strategies)
- Design and conduct solid forms screens (particularly cocrystal screens) using state-of-the-art techniques to ensure the success of the studies.
- Propose, design and perform additional alternative screening methodologies to discover new solid forms when traditional techniques are not successful
- Use a variety of characterization methods to characterize the identified solid forms, including NMR, TGA, DSC, DVS, single-crystal and powder X-ray diffraction.
- Develop production processes of new cocrystals at the gram and multi gram scale
- Design and perform stability studies of new cocrystals
- Apply or develop HPLC methodologies to monitor degradation of solid forms during stability studies
- Perform data analysis and prepare project reports.
- Prepare documentation for patent filing, and scientific manuscripts for peer-reviewed journals in a timely manner
- Ensure compliance with environmental, safety, health and quality program requirements
- Participate in project planning and execution

### **Basic Qualifications:**

- A PhD in chemistry, chemical engineering or related discipline
- A post-doctoral experience of at least two years in solid-state disciplines including characterization (NMR, TGA, DSC, PXRD...) of organic compounds

### **Preferred Qualifications:**

- Experience with process design and optimization
- Excellent track record of productive and creative research as demonstrated by publications in peer-reviewed journals and/or filed patents

**Please send your CV and cover letter to [info@circecrystal.com](mailto:info@circecrystal.com)**