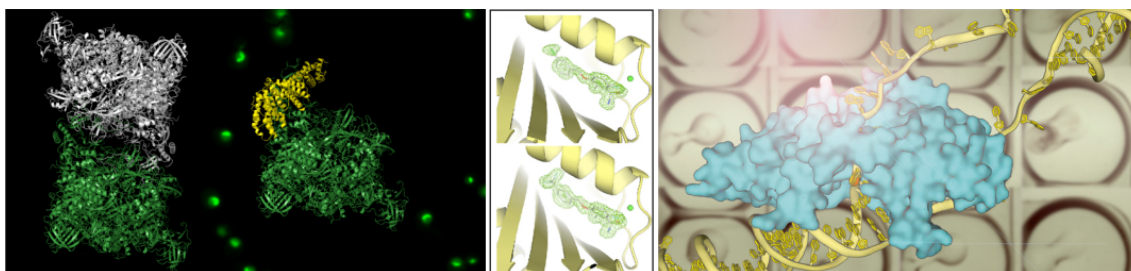


## Available position in AI methods for structure-based drug discovery

‘Margarita Salas’ Centre for Biological Research (CIB-CSIC) in Madrid, Spain

The laboratory led by Carlos Fernández-Tornero is looking for a highly-motivated researcher to develop novel AI methodologies to assist the discovery of small compounds aimed at modulating the function of macromolecular assemblies. The group aims to uncover the structure of cellular machines from pathogenic organisms to gain mechanistic insight into macromolecular function and assist the development of biomedical applications. For this, the group employs an integrative approach that combines structural biology methods, namely electron cryo-microscopy (cryo-EM) assisted by AI, with other biophysical and biochemical techniques. The CIB-CSIC institute gathers several structural biology labs within a multidisciplinary and international environment.

[www.cib.csic.es/research/cellular-and-molecular-biology/structure-macromolecular-assemblies](http://www.cib.csic.es/research/cellular-and-molecular-biology/structure-macromolecular-assemblies)



Candidates should prove experience in AI technologies. Previous expertise in protein science and structural biology are an asset. Interested candidates should submit a detailed CV with academic records and a motivation letter to Carlos Fernández-Tornero ([cftornero@cib.csic.es](mailto:cftornero@cib.csic.es)).

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### Publications from the group:

- Santos-Aledo et al. (2024) *bioRxiv*
- Plaza-Pegueroles et al. (2024) *Structure* 32:930-940.e3
- Nguyen et al. (2023) *Nat Commun* 14:1729
- Ruiz et al. (2022) *PLoS Biol* 20:e3001497
- Huecas et al. (2021) *J Med Chem* 64:5730-5745
- González-Corrochano et al. (2020) *Nucleic Acids Res* 48:9943-9958
- Sanz-Murillo et al. (2018) *PNAS* 115:8972-8977
- Torreira et al. (2017) *eLife* 6:e20832
- Fernández-Tornero et al. (2013) *Nature* 502:644-649