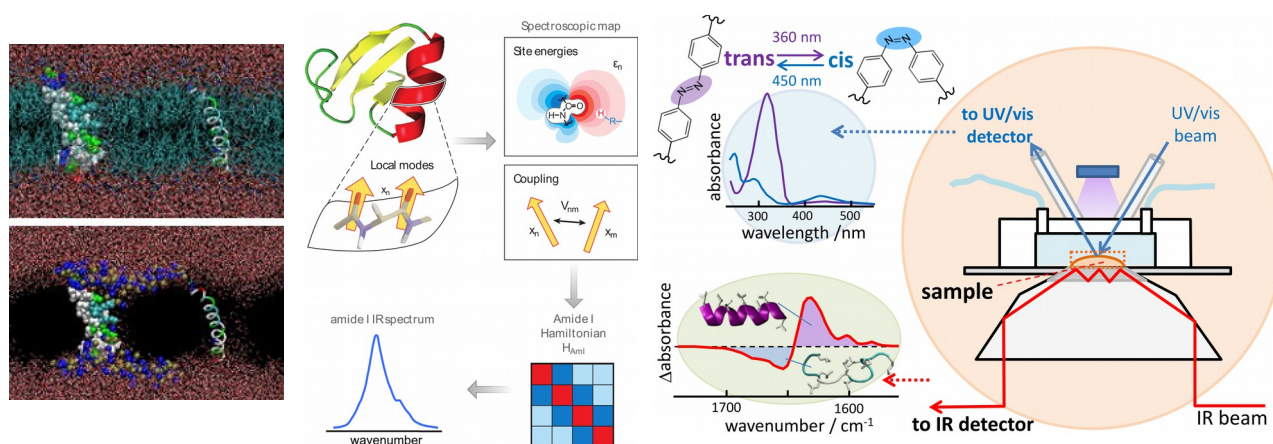


# Predocctoral position

**MemBioPhys@ICMol**  
The Membrane Biophysics Group

The [Membrane Biophysics](#) group from the **Institute for Molecular Science (ICMol)** at the Universitat de València (Spain), leaded by Jesus Salgado and Victor Lorenz-Fonfria, searches for **predocctoral** candidates for the project **Optical control of folding, membrane insertion and biological activity of photoswitchable hydrophobic peptides**.

Our goal is to understand the mechanism and the dynamics for the folding and insertion of hydrophobic proteins fragments into the lipidic membranes at the molecular level. We combine spectroscopic experiments (IR, CD,...) with molecular dynamics and spectral simulations on chemically engineered membrane peptides whose folding can be triggered by light.



## Applicant Eligibility

Candidates must hold an internationally recognized master's degree (or evidence that it will be soon obtained), ready to enroll a PhD program from the Universitat de València.

## Applicant Profile

- Proven track record of academic excellence, with interest in the intersection between physics, chemistry and biology.
- Interest in linking simulations and experiments.

Experience in classical molecular dynamics simulations, molecular spectroscopy, chemical synthesis, and scientific programming skills will be evaluated positively.

## What we offer

A direct PhD position for 1.5 years. To complete their PhD, candidates are expected to apply to annual

fellowships calls from the National and Local governments.

## How to Apply

Contact [victor.lorenz@uv.es](mailto:victor.lorenz@uv.es) (subject "OptoMembrane Predoc"), preferably before the 15<sup>th</sup> of March 2018. In your application include:

- Personal data and CV, specifying education and relevant experience.
- Cover letter, including motivation.
- A scan of the Certified Academic Record, showing grades (degree and master).
- Email addresses of two potential referees

Check our group page for an updated list of publications: <https://www.uv.es/membioophys/publications/>

## Some reviews relevant to the project

- Repper & Tokmakoff. *Ann Rev Phys Chem* 2016 67:16.1-16.28
- Ulmschneider et al. *J Membr Biol* 2011 239:15-26
- Hamm, Helbing & Bredenbeck. *Annu Rev Phys Chem* 2008 59:291-317.



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