



## UNAM-CONACYT: PROYECTOS DE FRONTERA POSTDOCTORAL FELLOWSHIP

**Postdoctoral Researcher Opportunity** to participate in the development of the project:

*Topological quantum matter and magnetoelectrics: from condensed matter to high energy physics.*

**Affiliation:** Instituto de Ciencias Nucleares, UNAM and Facultad de Química, UNAM

**Location:** CDMX, Mexico

We are looking for a postdoctoral researcher to join a theoretical teamwork studying the application of high energy physics methods to topological matter. Topics include:

- Calculation of effective actions giving the electromagnetic response of different materials.
- Formulation of quantum field theories in media with interfaces and applications to diverse phenomena.
- Axion Electrodynamics in magnetoelectric media.

### **Qualifications and Experience:**

- Ph.D. (granted) in physics.
- Ability to work as a member of a highly collaborative team

**Application deadline:** November 30, 2021, or until filled

The ideal start date for the position is January 2022.

**Compensation:** This is a full-time position for 12 months (with the possibility of an additional 12 months renewal). The salary is \$27,000.00 MXN per month. The adscription place is at the Instituto de Ciencias Nucleares.

**Application Instructions:** To apply, please send:

1. a research statement (2 or 3 pages)
2. a curriculum vitae, and
3. the Ph.D. certificate

to [posdoc.topo.mex@gmail.com](mailto:posdoc.topo.mex@gmail.com). Please type PostdocCDMX in the subject line.

Additionally, two *recommendation letters* should be sent directly to [posdoc.topo.mex@gmail.com](mailto:posdoc.topo.mex@gmail.com).

**Any further questions feel free to contact us** [posdoc.topo.mex@gmail.com](mailto:posdoc.topo.mex@gmail.com).

### **Project managers:**

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