

2 PhD positions in the Organophosphorus Research Group

The **Organophosphorus Research Group** is recruiting **two PhD candidates**. We seek **motivated and enthusiastic** researchers to become a part of our team. Our research focuses on the development of **multifunctional organic materials derived from phosphorus heterocycles**.

Project overview:

Successful applicants will investigate the **design, synthesis, and characterization** of **novel molecular materials** for **chiroptical applications**. Our research is centered on developing **original phosphorus-containing organic molecules** for applications in **organic electronics, supramolecular self-assembly, and chemical sensing**.

Reference papers:

- *Angew. Chem. Int. Ed.*, 2021, 60, 766-773
- *Angew. Chem. Int. Ed.*, 2018, 130, 15377-15381
- *Angew. Chem. Int. Ed.*, 2015, 54, 15872–15875

Requirements for the PhD candidates:

- Candidates must hold a Master's degree in organic chemistry or a closely related discipline, with solid training in synthetic organometallic and/or organic chemistry.
- Experience in handling of air- and moisture-sensitive compounds is strongly preferred.
- A minimum average grade of 7 out of 10 from **Bachelor**-level studies is advantageous
- Strong analytical thinking and problem-solving abilities are essential.
- Excellent command of written and spoken English is required.
- Good organizational skills and effective time management are expected.
- Dedication to the research project, together with a willingness to acquire and develop new skills as needed, is essential.
- Genuine enthusiasm for science, proactive attitude, strong communication skills, and a collaborative, open-minded approach with good interpersonal skills are highly valued.
- Willingness to guide and mentor graduate students when necessary.

How to apply: CV and contact details of two referees in a single pdf should be sent to cromerogroup@gmail.com. The CV must include the mark of the candidate Bachelor's degree. All candidates will be interviewed via Zoom.

We offer:

- An interdisciplinary research environment with access to state-of-the-art facilities.
- Supervision within a collaborative and international team.
- Opportunities for conference participation and collaborations.
- The PhD positions have an initial duration of 2 years, with the possibility of extension until the end of the PhD. Successful candidates will receive a salary in accordance with the UCLM guidelines. If you have further questions, please contact us through the provided email address. The research program will commence as soon as the positions are filled.

About the group and the city:

The group is highly international and the communication is in English/Spanish. It operates within a collaborative team environment, where candidates will have the opportunity to work independently on their research, while receiving guidance and support from senior researchers as needed. The project will involve the development of skills in synthetic chemistry, photophysical investigations, and effective communication of scientific results. Candidates will have the opportunity to present their work at seminars and international conferences, which will help to further enhance their skills and knowledge.

The group is based at the Faculty of Pharmacy in Albacete, which is a modern and well-equipped institution. Albacete is situated in the region of Castilla-La Mancha, and is known for its excellent transportation links, with high-speed train services and direct connections to cities such as Cuenca, Madrid, Valencia, Alicante, and Murcia. Additionally, the beautiful beaches of Alicante can be reached within just 50 minutes by train. The Sierra de Alcaraz mountain range is located approximately 80 km south of Albacete, offering numerous hiking opportunities with peaks reaching up to 2000 meters in height. The city is surrounded by picturesque villages, including Alcalá del Júcar, Ayna, and Bogarra. Living in Albacete is affordable and offers a vibrant social scene, with all major amenities located within walking distance, making it an ideal location for achieving a good life-work balance.

More information about the group can be found on the web: romero-nieto.com and on Twitter: [@cromeronieto](https://twitter.com/cromeronieto)

Albacete location:

Alcalá del Júcar:



Ayna:

