

Center for Career Planning & Placement (CCPP)

Graduate Placement Services (GPS)

JOB VACANCY FORM[©]

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Job Reference No.: JV361

Company Name: **New York University Abu Dhabi**

Company Type: Private



Job Position/Title:	Emirati Research Assistantships - Research Assistant - Chemistry	Academic Major:	Chemistry
Salary Range:	Competitive Salary	Years of Experience:	Fresh Graduate
Job Location:	Abu Dhabi	Job Type:	Fixed term (One academic year starting from September and ending on June).
Nationality:	UAE Nationals	Gender:	Both
Job Description:	OVERVIEW New York University Abu Dhabi (NYUAD) is establishing world-class research throughout its full range of academic disciplines, through faculty research and the NYUAD Institute research centers. The Emirati Research Assistantship (ERA) Program has been introduced to provide outstanding Emirati graduates the opportunity to gain experience in a cutting edge academic research environment. An ERA position will enhance research and scholarship skills that will strengthen applications to graduate programs and/or applications for a career in research. ERAs are 9 – 12 month positions in a single research lab or scholarly project and are not renewable. In general, positions follow the academic year, beginning in September and finishing in June the following year. RESEARCH PROJECT DESCRIPTION It is proposed to develop novel Metal Organic Frameworks (MOFs) based on topologically complexed structures such as (1) Borromean Rings (BRs) and Trefoil knots (TKs) as nanoscale, which are known to form all but quantitatively when compounds containing 2,6-diformylpyridine units (endo ligand precursors) react in a [2+2] manner with appropriate diamines that contain an exo ligand in the shape of a 2,2'-bipyridine fragment to afford these structures in the presence of zinc(II) ions acting as templates for the formation under thermodynamic control of imine bonds. The pre-determined highly ordered and periodic structures, which will be held together by strong bonds resulting from reticular synthesis, will be explored simultaneously by (3) computational modeling and (4) chemical synthesis.		

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	The making of this new family of nano-structured porous materials would constitute a major fundamental advance in reticular chemistry with implications for innovative technologies with the potential for high impact in the design of reagents and catalysts for the decontamination of chemical and biological warfare agents – as well as in the absorption of ions and molecules and the adsorption of gases that are relatively small molecules (e.g., gases, such as chlorine, phosgene, sarin, and tabun) on the one hand and large ones (e.g., toxins, such as botulinum toxin, ricin, and saxitoxin) on the other hand. The research will offer a very broad training in chemistry and molecular nanotechnology to students. RESPONSIBILITIES OF THE POSITION • Synthesis and characterization of starting materials that will be used in the preparation of the MOFs • Participating and presenting in weekly group meetings
Minimum Qualifications:	ESSENTIAL QUALIFICATIONS: • Bachelor of Science majoring in chemistry • Experience in organic synthesis or any other chemistry subjects • Excellent communication skills PREFERRED EXPERIENCE / SKILLS: In addition to the necessary knowledge of science and chemistry, a research chemist must be curious about the natural world and the ability to come up and develop new experiments. He/she's often required to work and collaborate with other scientists within the group as well as from different fields. This ability to work in a team setting and communicate with others is very important. Lab research work experience is an asset. APPLICANTS TO PROVIDE: • Statement of interest in the position • Transcript of degree(s) • CV • Two letters of recommendation
No. of Positions Required:	1
Job Close Date:	June 20, 2013

To Apply, UAEU Graduates/Alumni should send their CVs to:

nyuad.research.era@nyu.edu.

And

JN@uaeu.ac.ae

Please mention "**Job Reference No.: JV361**" in your email title in case we lost your information during filing.
Only doc/PDF/Zip files are acceptable.

