

Mohammed VI Polytechnic University

Chemical & Biochemical Sciences. Green Process Engineering (CBS)

Position Announcement

Job Title: Assistant or Associate Professor in Organic Analytical Chemistry.

Area of specialization in CBS Education and Research: All aspects of organic analytical chemistry, NMR, LC-MS/MS, GC-MS/MS, spectroscopic studies including UV-Vis, fluorescence, luminescence and other modern analytical methods for organic and hybrid compounds.

Job description:

The Chemical & Biochemical Sciences. Green Process Engineering (CBS) at Mohammed VI Polytechnic University invites applications for an Assistant Professor specialized in the area of analytical chemistry with the focus on developing qualitative and quantitative methods for analysis of organic and hybrid compounds: from sampling, chromatography, spectrometry and data analysis. Candidates are expected to be ambitious and work in the front line of CBS research fields with a strong focus on innovation in both academic and applied research, in close collaboration with international academic and industrial partners.

Qualified candidates at the Assistant/Associate Professor level will be considered with hiring rank commensurate with academic accomplishments.

The position is open to individuals who hold a Doctoral degree in the subject discipline from a recognized university as well as academic qualifications, funding track record and research vision. Preference will be given to those with good research and teaching experience. Good communication skills, both verbal and writing are important. Fluency in French and English are preferred.

Key duties:

Successful candidates are expected to have the capacity to:

- Teach graduate students in the target fields of the recruitment.
- Develop ambitious interdisciplinary research project.
- Use different communication and disseminations tools (peer-reviewed publications, large public dissemination ...).
- Pursue permanent trainings in order to improve up-to-date capacities.
- Supervise Master-students, PhDs and Post-doc.

Criteria of the candidate:

General Criteria

- PhD in the target disciplines as well as academic qualifications in highly recognized Universities.
- Research impact and experience, funding track record, and research vision.
- Demonstrated understanding of operational requirements for a successful research project and managing resources.
- Ability to generate new ideas, links, and to build upon existing ideas to generate good concepts and solutions.
- Leadership potential and collaboration.
- Demonstrated teaching and supervision skills.
- Innovation activities, including collaboration with industry.

Specific Criteria for Assistant Professor

- Quality of scientific achievements and impact of publications normalized by discipline and career stage (IF >3).
- Number of publications in peer-reviewed journals > 10.
- Quality and impact of patents: national, International, licensed.
- Contribution and presentations in national and international symposiums (> 3)
- Co-supervision of Master students or PhD (> 3).
- Teaching experience (justify of at least 50 h teaching experience).

Specific Criteria for Associate Professor

- Quality of scientific achievements and impact of publications normalized by discipline and career stage (IF >3). Two major publications in the high impact journals of the discipline as the corresponding co-corresponding author.
- Number of publications in peer-reviewed journals > 30, with at least 10% as co-corresponding author.
- Quality and impact of patents: national, International, licensed.
- Invited lecture and contributions at national and international symposiums (> 5)
- Supervision and co-supervision of Master students and PhD (>5)
- Number of obtained Grants in national and international calls as PI or Co-PI (> 3).
- Teaching experience (justify of at least 150 h teaching experience).

Skills:

Research skills

- Analytical Chemistry.
- Analysis of complex mixtures.
- Development of analytical methods.
- High expertise in chromatography and spectrometry methods including: NMR, LC-MS/MS, GC-MS/MS, 2D methods.

- Calorimetric methods: ITC, DSC, DSF.

Teaching skills

- Fundamental analytic chemistry.
- Chromatography and Mass spectrometry LC/MS/MS, GC/MS/MS, GC 2D.
- NMR 1D and 2D for several atoms including phosphorus.
- Fundamental spectroscopic methods: UV-Vis, Fluorescence, Luminescence.
- Basic teaching in calorimetric methods.
- Provide mentoring and advertisement to students, the department and university.

About UM6P:

Located at the heart of the future Green City of Benguerir, Mohammed VI Polytechnic University (UM6P), a higher education institution with an international standard, is established to serve Morocco and the African continent. Its vision is honed around research and innovation at the service of education and development. This unique nascent university, with its state-of-the-art campus and infrastructure, has woven a sound academic and research network, and its recruitment process is seeking high quality academics and professionals in order to boost its quality-oriented research environment in the metropolitan area of Marrakech.

About CBS:

The Chemical & Biochemical Sciences. Green Process Engineering (CBS) is a component of the University Mohammed VI Polytechnic (UM6P). The main goal of CBS is to set up an unprecedented research-education program, of international level, to address the UM6P challenges in terms of research and education, with a special focus on green and environmental chemistry applied to all aspects of chemical sciences: organic and inorganic chemistry, **analytic chemistry**, chemical biology, biochemical and thermal reactions.

Research within CBS is organized around several major areas, that aim to answer challenging industrial questions, from basic chemical and biochemical reactions to scale-up and process engineering validation. CBS projects aim to deeply understand the molecular mechanisms of all transformations to propose new original alternatives in terms of efficiency, greenness, and sustainability.

The CBS entity operates on the principle of partnerships with Moroccan and international universities and adopts the approach of joint diplomas and joint laboratories labeled. CBS has already set-up a research Master on Phosphate Chemical Sciences, two Executive Masters will also be launched in 2019.

Applications and selection procedure :

- Applications must be sent to: recrutement@um6p.ma , before April 30, 2019 in a single electronic zipped folder with the mention of the job title in the mail's subject. The folder must contain:
 - A cover letter indicating the position applied for and the main research interests.
 - A detailed CV.
 - A brief research statement.
 - Contact information of 3 references (applicants are assumed to have obtained their references' consent to be contacted for this matter).

- The short-listed candidates will be invited to meet the university selection committee.

About compensation package :

- Best in class salaries
- 30% annual bonus on gross salary.
- Research budget allowance to professor
- Best in class :
 - IP sharing policy (33% for professor)
 - MOOCs policy (60% for professor)
 - Consulting policy (100% for professor when teaching time is completed)

- Complete benefits including housing, tuition fees, life & medical insurance, retirement, maternity leave and sabbatical.