

Position Announcement

Job Title: Assistant Professor position in Climate change impact on water resources and crop production in Africa

Area of specialization in IWRI Education and Research: Water Resources Management, crop modeling, hydrological modeling, climate processes.

Job description:

The International Water Research Institute (IWRI) at Mohammed VI Polytechnic University invites applications for faculty positions specialized in the area of understanding and predicting the impact of climate change on water resources and crop production in Africa through the use of disaggregated climate model scenarios /or high resolution climate models outputs in conjunction with a coupled hydro-ecological models. The positions are open to individuals who hold Engineering graduate/MS degree and PhD in Water Resources Modeling and crop production/Climate processes in arid and semi-arid regions. Research expertise should encompass in addition to arid and semi-arid water resources and crop production thematic, numerical modelling, uncertainty quantification, field work are considered as an asset. 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 desire and ability to teach courses at the undergraduate level related to the candidate's areas of research interest.
- Perform multidisciplinary research and contribute to develop a funded research program.
- Publish the results of personal and sponsored research in international journals refereed by his/her peers.
- Pursue scholarly and professional activities that will keep him/her at the leading edge of his/her field.

Criteria of the candidate:

- PhD in the subject discipline
- At least 2-5 years of experience in the subject discipline
- Relevant experience in the subject discipline as postdoctoral researcher.
- Demonstrated understanding of operational requirements for a successful research project and managing resources.
- Proven ability to identify and fulfill the academic writing requirements for target publications.
- Ability to generate new ideas, links, and to build upon existing ideas to generate good concepts and solutions.
- Demonstrated teaching skills.

Skills:

Research skills

- Hydro-ecology
- Water Resources management
- Experience with using climate models
- Uncertainty quantification

Teaching skills

- Hydro ecology
- Hydrology
- Land-Surface-Atmosphere Interaction
- Numerical modelling
- Uncertainty quantification

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 IWRI:

UM6P-IWRI International Water Research Institute is the newest institute located in Morocco, provisionally in Rabat but the main infrastructures are planned in Mazagan and Laâyoune. The institute is dedicated to interdisciplinary and transdisciplinary education and research around water and climate.

The objectives are to conduct cutting-edge research where local themes are connected to global issues of water and climate, with a focus on:

- Integrated Water Resources Management (IWRM)
- Development of water related technologies (irrigation, water supply and sanitation, desalination, demineralisation, treatment and recycling for water reuse)
- Water-Energy-Food-Health-Education Nexus
- Water in and for Soil, Droughts and desertification
- Water Related Hazards
 - Floods (“Hydrometeorological” hazard)
 - Ground Instability
 - Water Pollution
 - Air-Water-Ocean interactions
 - Climate change
- Climate Change and Adaptation Strategies
- Integrated coastal zone management (ICZM)
- Water information, knowledge and decision systems
- Forecasting and Warning Systems
- Environmental Considerations and Sustainable development

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 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.