**Post-Doctoral Scientist, Microbial Ecology and Genomics**

Marquette University Biological Sciences Department and the Global Water Center, seeks a postdoctoral scholar to conduct research at the interface among microbial genomics, microbial biofilms, evolution of resistance to antibiotics and disinfectants, quantitative modeling, and the ecology of opportunistic pathogens in water systems.

The postdoctoral scholar will be part of a cross-disciplinary project and will work with Drs. Krassimira Hristova, Chris Marshall and Brooke Mayer to develop innovative solutions to prevent and treat biofilms of opportunistic pathogens associated with building water systems. The group current portfolio is funded NSF and DOD projects.

**Job Description Summary**:

the Post-Doctoral Scientist will have following responsibilities:

* Plans and conducts research by designing and implementing novel studies related to antibiotic and disinfectants resistance and microbial ecology in a controlled laboratory setting.
* Plan and implement longitudinal field studies and sampling
* Develops novel ecological models based on research questions of interest.
* Plans of independent research, analyzes and interprets data.
* Prepares abstracts, presentations, and manuscripts. May represent the university at conferences and meetings.
* Contributes to research proposals for new extramural funding.
* The incumbent may perform other related duties as assigned. The omission of specific duties does not preclude the supervisor from assigning duties that are logically related to the position.

The position is a limited term position for 12 months from the start of the assignment, with the opportunity for extension after successful completion of the first year.

**Minimum Qualifications:**

Qualified candidates will hold a PhD in microbiology, molecular biology or a related discipline. Degree must be conferred by the start date of the position.

**Preferred Qualifications:**

* Record of publication in the peer-reviewed literature, collaborative interdisciplinary research, and success in fundraising for research or scholarship
* Skills and experience in modeling and statistics, microbial ecology, and molecular biology, proficiency in R
* A strong motivation for the area of research
* Demonstrated verbal and written communication skills
* Demonstrated innovation, self-motivation, critical thinking and problem solving
* Documented experience analyzing amplicon sequencing datasets
* Experience with metagenomics
* Vision for research growth and collaboration in ecosystem science

|  |
| --- |
| **Typical Hiring Range** |

$43,000 - $49,500

**EEO Statement:**

The university is an Equal Employment Opportunity/Affirmative Action employer that does not unlawfully discriminate in any of its programs or activities on the basis of race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity or expression, or on any other basis prohibited by applicable law.

**Application:**

**Please include**

* Curriculum vitae
* Diplomas (PhD degree or equivalent)
* Research plan – description of current and future research plans
* Complete publication list
* Separate reprints of 3 particularly relevant papers