Biology Department

Lawrenceville

New Jersey

April11,2018

Dear Search Committee,

I am writing to express my interest for a full time Facultyposition of Lecturerin your Biology Department. I have taught several courses including major as well as non-majorlevel **Biology courses,** Anatomy & Physiology, Marine Biology**,**Plant Biology,Invertebrate,Ecology and Evolution, Introduction to Marine Science, Biodiversity,Invertebrate Zoology,**Introductory Biology,**Cell Biology, Basic Genetics.

As my resume indicates, my qualifications include several years of academic experience, as an instructor and assistant professor of diverse undergraduate and graduate students at **Rutgers, Montclair University** and other Universities including several community colleges. I can teach both traditional and online and upper level such as Biology, Ecology, Marine Science, Invertebrate**,**Graduate courses. I am certain that being an Ecologist and the combination of my graduate education and strong background in teaching within life Sciences at Rutgers University over 12 years, present an excellent fit for this position.

My passion for teaching and promoting student learning is evident from the excellent comments and ratings in my student evaluations.

Whilea graduate student at Rutgers New Brunswick, I was honored to teach Marine Biology (481), a graduate level courseat Rutgers Newark Campuswhich included supervising a teaching assistant and guiding mastersstudents. I am certain that my professional extensive international academic teaching and research experience on some Environmental issues, such as oyster’s restoration Project (bivalve)and heavy metals, Mercury, Lead and Cadmium contamination in aquatic organisms, can serve as a foundation in developing research programs. I am certain,being a Marine Ecologist and Environmental Biologist, I can also support any departmental undergraduate research programs.

I earned my PhD in 2008 from the Department of Ecology and Evolution at Rutgers University. My research focused on heavy metals (Mercury, Lead, Cadmium, Copper, Zinc, and Magnesium)pollution and assessment of marine coastal environments through the potential use of the clam*Amiantisumbonella (*bivalve*)* as an effective bio-indicator species. This involved the application of sophisticated quantitative and qualitative methodologies on field research. Indeed, my research is the first study of its kind showing Cd bio-magnification (like Hg) in a marine food chain. I have published two peer-reviewed research papers from this research and a third is in preparation.

I also have experience designing new and innovative courses. Last year, I was honored by senior vice president of Rowan College to design a new course, "Introduction to Marine Science" with a field-based curriculum intended to prepare students to investigate, understand, and respond to complex issues within the marine environment. The curriculum was designed to closely match the baccalaureate core guidelines of the college.

I am currently working as a Visiting Scientist/Scholar with Dr. Keith Cooper in the Department of Biochemistry and Microbiology at Rutgers University. Our research focuses on wild life oyster species, *Crassostreavirginica's*population dynamics, environmental effects(salinity, temp, viral disease)and the embryological development of in vivo exposure of wild Oyster larvae. It will provide an objective and quantitative tool for planning future oyster reef restoration efforts at Raritan Estuary. Teaching and research are mutually supportive activities, my research interests have both shaped and been shaped by my recent teaching experiences.

Please find enclosed my CV a list of references, a statement of teaching, and a statement of research, online publication, Rutgers Transcript and Rutgers student’s evaluation. Please contact me if there are any further questions regarding my application. Contact by e-mail is preferred. I will gladly provide any other supporting documents upon request including recommendation letters from:

1) Dr. Judith P. Grassle - jgrassle@marine.rutgers.edu

2) Dr. John Reinfelder - reinfelder@envsci.rutgers.edu

3) Dr. Diana Martin - diamargbio@aol.com

I am enthusiastic about the position and am confident that I would be able to add value to your department. I look forward to the opportunity to meet with the members of the Search Committee to demonstrate further how I could contribute to teaching and research in your department.

Thank you for your time and I look forward to hearing from you.

Sincerely,

Dr. (Mrs.) Qaiser Tarique

Visiting/Scholar

Rutgers University

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