Midwestern University  
Job Advertisement  
Biostatistician – Office of Research & Sponsored Programs

Apply directly on our website at www.midwestern.edu, Quick Links, Employment at MWU. Please contact the Office of Human Resources at 623-572-3263 or email us at AZHumanResources@midwestern.edu if you have questions.

Job Summary

The successful candidate will report directly to the Manager of BioClinical Statistics in the Office of Research and Sponsored Programs but will also work with, and under the direction of, the Public Health Program Director for the design, development, and delivery of biostatistics curriculum in the Public Health Program in the College of Graduate Studies. The individual will spend approximately 50% of effort providing statistical support to assist faculty in the design, analysis, interpretation, and reporting of biomedical and clinical research throughout Midwestern University (MWU) and MWU Osteopathic Postdoctoral Training Institute (OPTI). The other 50% of effort will be spent contributing to the development and instruction of online and traditional courses in biostatistics and related subjects, and advising students on public health capstone projects within a newly established Master of Public Health (MPH) program in the MWU College of Graduate Studies.

Duties and Responsibilities

Academic responsibilities:

- Participates actively in teaching in the Public Health program in accordance with the area of expertise: biostatistics and related subjects as assigned. Participation will be as a primary instructor or co-instructor in team-taught courses.
- Develops or contributes substantively to the content and assessment of online and/or traditional courses in biostatistics, research design and methods, and similar subject matter.
- Works with, and under the direction of, the MWU Manager of BioClinical Statistics and the Program Director of Public Health for the design, development and delivery of Biostatistics and related curriculum in the Public Health Program.
- Devotes up to 50% of time and effort on activities associated with the MPH Program, including primary instruction, student advising and mentoring, and assistance in student research and service projects that impact the MPH Program and its students. This will include, but not be limited to advising MPH students on capstone project design and appropriate statistical methods for data analysis.
• As appropriate and with approval, contributes to academic instruction in other Midwestern University healthcare education program(s) via joint adjunct faculty appointment.
• Adheres to the bylaws, rules, regulations, and policies of Midwestern University.
• Other academic duties as assigned by the Public Health Program Director in consultation with the Manager for BioClinical Statistics

Staff Biostatistician responsibilities:

• Provides statistical support and consulting to assist faculty in research design, data analysis and statistical reports for biomedical and clinical research within all colleges of Midwestern University (MWU) and the MWU Osteopathic Postdoctoral Training Institute (OPTI).
• Prepares and reviews integrated statistical and clinical reports including summary statistics, graphics, tabulations, and raw data listings for clinical and research studies as well as publications using accepted statistical tools while ensuring quality controlled production
• Provides significant input into the design, preparation and review of clinical protocols and research projects by furnishing information, analysis, knowledge, insight and recommendations for use in decision making.
• Designs statistical sampling plans, perform data analysis and utilize statistical tools to review various quality data
• Creates statistical text for documents and protocols (study design, endpoints, sample size, methods for analysis)
• Performs power analysis for faculty justifying the sample size for Institutional Review Board and Institutional Animal Care and Use Committee applications
• Other duties as by the Manager of Bioclinical Statistics.

Supervisory Responsibilities

This job has no supervisory responsibilities.

Qualifications

To perform this job successfully, an individual must be able to perform each duty satisfactorily. Must be able to work in a constant state of alertness and safe manner and have regular, predictable, in-person attendance. The requirements listed below are representative of the knowledge, skill, and/or ability required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Education and/or Experience

Required:

• Master’s degree in statistics, biostatistics, or a related field
• 4 years of relevant work experience
• Experience in multivariate biostatistics, longitudinal analysis and statistical simulation
• Demonstrates clear and concise verbal and written skills
• Ability to clearly communicate biostatistics principles and procedures

Desired:

• Experience teaching statistics at the college level
• Prior work experience in relevant public health or research settings

Computer Skills

Computer proficiency in MS Office (Word, Excel, Outlook, PowerPoint) and SPSS, SAS, or R.

Language Skills

High skills: Ability to read, analyze, and interpret general business periodicals, professional journals, technical procedures or governmental regulations. Ability to write reports, business correspondence, and procedure manuals. Ability to effectively present information to top management and board of directors.

Reasoning Ability

High skills: Ability to solve practical problems and deal with a variety of concrete variables in situations where only limited standardization exists. Ability to interpret a variety of instructions furnished in written, oral, diagram, or schedule form.

Mathematical Ability

High skills: Ability to work with mathematical concepts such as probability and statistical inference and fundamentals of plane and solid geometry and trigonometry.

Physical Demands

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to stand, walk, talk and hear. The employee is occasionally required to reach with hands and arms. The employee is frequently required to sit, use hands to finger, handle, or feel. The employee must regularly lift and/or move up to 10 pounds and occasionally lift and/or move up to 25 pounds. Specific vision abilities required by this job include close and distance vision.
Work Environment

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. The noise level in the work environment is usually moderate.

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Midwestern University is an Equal Opportunity/Affirmative Action employer that does not discriminate against an employee or applicant based upon race, color, religion, gender, national origin, disability, or veterans status, in accord with 41 C.F.R. 60-1.4(a), 250.5(a), 300.5(a) and 741.5(a). Midwestern University complies with the Smoke-Free Arizona Act (A.R.S. 36-601.01) and the Smoke Free Illinois Act (410 ILCS 82/). Midwestern University complies with the Illinois Equal Pay Act of 2003 and Arizona Equal Pay Acts.