

Job Description: Regenerative Medicine Research Scientist

Andrews Research & Education Foundation (AREF) brings together the highest level of sports medicine education from doctors, researchers, and rehabilitation professionals. We partner with industry leaders to research cutting-edge solutions that impact the future of sports medicine. We deliver educational solutions through videos, seminars, and documentation. The Andrews Regenerative Medicine Center (RMC) was designed to pioneer the translation of regenerative medicine treatments from early clinical and animal studies to evidence-based patient care. The RMC provides clinical space to offer current evidence-based and regulatory-compliant treatments and houses a tissue processing and storage facility to participate in developmental stem cell studies. The RMC includes a GMP compliant clean room (ISO 7), lab equipment to facilitate research (including a flow cytometer, hemocytometer, incubator, microscope, ELISA reader, and other equipment), and biologic product storage (including liquid nitrogen vapor phase storage, a -80 freezer, and two medical grade biologic refrigerators).

The Regenerative Medicine Research Scientist (RMRS) at AREF is responsible for the scientific guidance to generate and sustain research activities particularly involving biologics and regenerative medicine. Research activities include development of research ideas and protocols for corporate and physician partners' implementation, evaluation, and publishing. The RMRS will also provide technical skills training and scientific guidance to investigators and assist with problem solving; identify areas of technical difficulty and provide solutions and assess validity of research data. The RMRS will be a significant support position to the Director of Research and Development. They will participate in grant proposal planning and writing, oversee day to day laboratory activities and ensure that all laboratory procedures are performed properly and in adherence to regulation. At times, the RMRS will facilitate procedures in the Surgical Skills Laboratory and assist with patient visits for clinical research studies.

Works under general supervision, is responsible for various shifts on a salary exempt status, may be subject to over 40 hours per week and/or callback as required, and may also be required to remain on campus immediately before, during, and after severe weather and/or disasters

MAJOR DUTIES AND RESPONSIBILITIES:

1. Functions as the lead analyst on studies to include cell culturing, cell differentiation, flow cytometry, hemocytometry, and ELISA testing
2. Provides scientific/technical expertise, training, and mentoring to team
3. Provides scientific guidance on the work scope and timeline for proposed research projects and feasibility requests
4. Maintains laboratory equipment and inventory to facilitate research project completion and fiscal responsibility
5. Responsible for physician and team education including GCP training, new programming and research techniques for professionals conducting scientific research or research to facilitate clinical improvements, capture outcomes, or for professional journal publication
6. Serves as a technical expert for the campus and conducts study development, implementation, and analyses independently
7. Assist with SAS/SPSS programming and analysis as needed for research studies
8. Collaborates with practitioners, fellows, and clinical research staff on research projects, tasks, and protocol development
9. Contributes to the development of standard operating procedures (SOPs), guidelines, and reference materials
10. Supports the Director of Research and Development and Research team on research studies
11. Performs other duties as assigned to support the essential functions of the job and operational needs of the department

QUALIFICATIONS FOR JOB: Summary of required and preferred: Registrations, certifications, licensures, education, experience, knowledge skills and abilities.

Required:

- Bachelor's degree in biological sciences or a related field
- Work experience in medical research and/or sports medicine setting including lab experience
- Experience performing research on stem cells and other tissues
- Knowledge of tissue regrowth and stem cell therapies
- Knowledge of writing and submitting applications for Institutional Review Board approval and grant procurement of research projects
- Experience in authoring scientific papers and other technical writing; including submitting papers to scientific journals for publishing
- Strong background in research procedures including data collection management, sports medicine and/or biomedical research
- Experience with multiple software applications in research data collection for medical outcomes, sports medicine and/or biomedical research
- Proficiency with Microsoft Office products including Excel

Preferred:

- Master's degree in molecular biology or a related field
- Strong background in statistical analysis of medical outcomes, sports medicine and/or biomechanical research
- Programming experience with SAS and/or SPSS
- Certified Medical Laboratory Scientist or Certified Clinical Laboratory Scientist