



Andrew Putnam, Ph.D.

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Lab homepage: <https://www.theputnamlab.com/>

Position Summary

The Putnam Laboratory in the [Department of Biomedical Engineering](#) (BME) at the [University of Michigan](#) is seeking a highly motivated individual for a Research Laboratory Specialist Intermediate position. The selected candidate will work closely with Dr. Andrew Putnam and other members of his group on NIH-funded projects focused on creating functional vasculature in engineered tissue constructs. The primary responsibility is to manage multiple aspects of the day-to-day operations of the group, including the management of multiple IACUC-approved animal protocols, maintaining compliance with EHS lab safety requirements, and handling procurement activities

**This is a one year term-limited position with the possibility of extension based upon need and funding.

Responsibilities

- Facilitate day-to-day research laboratory operations, including procurement and inventory of reagents and supplies
- Manage multiple IACUC protocols (involving rodents) and serve as the point of contact for biannual IACUC inspections
- Manage the laboratory's IBC protocol to ensure safe usage of recombinant DNA constructs, viral gene delivery systems, and human cell cultures
- Serve as the laboratory's safety officer, maintaining all required documentation for annual EHS inspections
- Facilitate animal research by the faculty, students, and postdocs in the lab by assisting with animal surgeries and post-surgical care
- Provide technical support to a range of research projects using various techniques including cell culture, immunohistochemistry, hydrogel fabrication and characterization, flow cytometry, recombinant DNA techniques, and qPCR.

Required Qualifications

- Bachelor's degree in a molecular/cellular biology, biochemistry, physiology, bioengineering, or other life science-related discipline
- Exceptional work ethic
- Excellent communication skills
- Ability to work both independently and collaboratively
- At least two years of prior research laboratory experience

Desired Qualifications

- Master's degree with 3-5 years of relevant research laboratory experience
- Prior experience with one or more of the following:
 - animal handling and maintenance of IACUC protocols
 - simple rodent surgeries, especially subQ implant and/or tumor xenograft models
 - vascular cell biology
 - 3D cell culture
 - histology/immunohistochemistry
 - immunocytochemistry
 - confocal fluorescence microscopy
 - molecular biology (recombinant DNA, RNA interference, CRISPR/Cas, qPCR, Western blotting, etc.)

About the Putnam Lab

Founded in 2003, our lab has been operating within the highly-regarded Department of Biomedical Engineering at the University of Michigan for the past 14 years. We are a small but mighty team conducting both fundamental and applied research in regenerative medicine, with an emphasis on vascularization. We use a multidisciplinary combination of approaches from biomaterials, mechanobiology, stem cell biology, cell/molecular biology, and engineering. The Putnam Lab strives to create a positive and welcoming environment for scientists and engineers from all backgrounds. **ALL individuals with a passion for our science, regardless of race, ethnicity, country of origin, physical ability, gender identity, sexual orientation, political leanings, religious preferences, and age are welcome here!**

How to Apply

Please apply via [UM's Careers Website](#). A cover letter is required for consideration for this position and should be attached as the first page of your resume. The cover letter should address your specific interest in the position and outline skills and experience that directly relate to this position. Please also include the names and contact information of 3 professional references.