

Yaling Shi, Ph.D.

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Objective

Seeking a challenging project management position in the biosciences industry, where I can integrate my expertise in medical devices and biopharmaceuticals.

Education

Ph.D. in Applied Biomedical Engineering, Cleveland Clinic Foundation/Cleveland State University, Cleveland, OH

Career Summary

Spectranetics, Colorado Springs, Colorado, May 2006 to present

Offers laser catheter systems for revascularization of coronary and peripheral arteries, and for pacemaker lead removal.

Senior Engineer/Project Manager

- Developed in-house capability for the study of ablation science
 - Identified and acquired a high speed (microsecond level) video camera system to image vapor bubble formation at the catheter tip
 - Developed and designed fixtures to characterize and measure the rate of lesion ablation
- Managed project team members to investigate new technologies for the ablation of hard lesions
 - Investigated new catheter tip designs
 - Studied the effects of different laser energy levels
 - Made use of adjunct chemistry to enhance ablation
- Optimized laser ablation process specifically to reduce vessel wall dissection
 - Set-up company-wide histopathology and microscopic imaging resource center
 - Developed in-vitro model of artery and a thrombus occlusion, instrumented with piezoelectric film and studies pressure waveforms during laser ablation
 - Made use of Design-of-Experiments to explore large matrix of ablation parameters
- Explored technologies for the development of the next-generation products making use of our previously patented principle of photoacoustic drug delivery
 - Developed static and perfused test systems
 - Studied dose-response relationships
- Responsible for the planning and budgeting of new R&D projects
- Specified equipment for purchase, negotiated prices, interfaced with outside vendors and suppliers
- Supervised up to 4 technicians at a time
- Created 4 invention disclosures and numerous protocols and project reports

Children's Hospital Los Angeles, Los Angeles, CA, Jan. 2003 to May 2006

Acknowledged through US and around the world for its leadership in pediatric and adolescent health

Sr. Research Associate

- Managed biochemistry, histology and tissue engineering activities in the lab
- Developed tissue-engineered heart valves
- Developed animal model of tissue-engineered cardiovascular grafts
- Designed static and dynamic loading bioreactors using Pro-E and rapid prototyping (SLA)
- Performed wide range of cell and tissue culture, cell harvesting and biochemical assays
- Managed histology core (processing, embedding, sectioning, staining, immunohistochemistry) and biochemical assays (DNA, SDS_PAGE, western blot etc.)

Cleveland Clinic Foundation, Cleveland, Ohio, 1999 to 2003

Ranked among America's top hospitals by US news and world report

Research Associate

- Managed tissue engineering activities in the lab
 - Developed tissue-engineered heart valves
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Publications – Personal Interests

4 peer-reviewed, high-ranked journal articles (see www.pubmed.org)

Travelling, skiing, hiking, cycling, volleyball