

Research Scientist

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STEVEN P. JONES

Biomedical Engineering PhD with 6 years' experience in synthetic biomaterials development

- Expertise in Biomanufacturing and Bacterial Fermentation
- 3 years' experience in Transmission Electron Microscopy
- Project Management: Led 4 teams to achieve deliverables within deadlines

EDUCATION

PH.D., BIOENGINEERING – University of Utah, Salt Lake City, UT GPA: 3.9 December 2019
Dissertation: Developed hepatocellular carcinoma embolic agent using recombinant silk-elastinlike protein polymers
Certificates: Nanotechnology, Engineering Entrepreneurship

B.S., MATERIALS ENGINEERING – Purdue University, West Lafayette, IN GPA: 3.4 May 2014
Minors: BIOLOGY, CHEMISTRY
Capstone Project: Mid-scale bacterial and yeast fermentation for food engineering applications

TECHNICAL SKILLS

TEM	HPLC	MS	XRD	AFM	PCR
SEM	TGA	IR	NMR	DSC	GC

EXPERIENCE

POSTDOCTORAL RESEARCH FELLOW – Rhodes Lab, Rice University, Houston TX July 2018 – May 2022

- Designed protocols that significantly enhanced the the productivity and efficacy of the research process.
- Created project reporting system that coordinated accountability data and reporting.
- Collaborated on 3 projects with visiting academic and industry researchers and technicians.

GRADUATE RESEARCHER – Biomedical Engineering, University of Utah August 2014 – June 2018

- Designed a liquid-to-solid transitioning embolic for the treatment of hepatocellular carcinoma.
- Collaborated with commercial entities for scale-up / manufacturing of embolic technologies.

PROJECT MANAGEMENT INTERN – Merit Medical, South Jordan UT May 2018 – August 2018

- Directed 6 main company projects involving all stages of product development.
- Communicated with all levels of the organization to ensure compliance throughout projects.
- Oversaw the transition to a new supplier, including procurement and regulation (FDA).

FERMENTATION TECHNICIAN – Biology, Purdue University, Lafaette IN August 2013 – May 2014

- Ran 20+ successful fermentations involving differing strains of bacteria and yeast.
- Trained 2 new technicians to ensue successful knowledge and skills transfer.

TELLER – Ruby's Bank, Carmel IN January 2012 – August 2013

- Developed new procedures for financial tracking of business accounts.
- Resolved customer questions relating to complex account processes.

AWARDS AND HONORS

FELLOWSHIPS

- Eccles Fellowship, University of Utah College of Engineering, July 2014
- Nanotechnology Training Program Fellowship, Nano Institute of Utah, June 2014

OTHER SELECTED AWARDS

- Kinam Park Student Travel Grant, Controlled Release Society, Jul. 2018
- Best Research Poster, Utah Biomedical Engineering Conference, December 2016

VOLUNTEER / LEADERSHIP ACTIVITIES

TREASURER – Graduate Student Advisory Council, University of Utah January 2012 – August 2013

- Handled financial transactions and accounting for a main university council.
- Provided valuable insight into council discussions, ultimately enacting two new university policies.

HANDLER / TRAINER – Caesar Therapy Animals September 2016 – May 2018

- Trained 12 dogs (differing breeds) for use as mental illness therapy animals.
- Offered a weekly training course to new handlers of therapy animals.

PUBLICATIONS & PATENTS

SELECTED JOURNAL ARTICLES (Complete publication list available at scholar.google.com/spjones)

1. **S.P. Jones**, T.P. Flushing, L.Q. Wu, B.F. Gardner, J.T. Martin, J. Stevens, H. Pershing. Recombinant protein polymers exhibit unnatural folding. *Macromolecular Bioscience* (2019) 18(2):1561-1573.
2. **S.P. Jones**, T.P. Flushing, N.L. Efant, H. Pershing. Embolic therapies extend life expectancy in mouse models of hepatocellular carcinoma. *Journal of Controlled Release* (2018) 259:62-75.
3. T.P. Flushing, J. Wanjian, **S.P. Jones**, A. Sole, J. Stevens, H. Pershing. Silk-elastinlike protein polymers enhance the efficacy of radioembolotherapy in various cancer models. *Journal of Controlled Release* (2018) 263:46-56.
4. T.P. Flushing, W. Jia, A. Sole, **S.P. Jones**, D. Fenza, B.F. Gardner, J.T. Martin, J. Stevens, H. Pershing. Silk-elastinlike polymer embolics show strong translational potential. *Science Translational Medicine* (2018) 199(4):107-114.
5. T.P. Flushing, **S.P. Jones**, D. Fenza, B.F. Gardner, J.T. Martin, J. Stevens, L. Eisenmenger, E. Huo, H. Pershing. Preliminary development of a silk-elastinlike protein polymer based embolic for hepatocellular carcinoma. *Journal of Vascular and Interventional Radiology* (2017) 29(4):S174-S175.

PATENT APPLICATIONS

1. H. Pershing, T.P. Flushing, **S.P. Jones**. Patent Application No. WO20192356789A1. Protein Polymer Radioembolic Device. Filed October 2, 2018.

PROFESSIONAL ORGANIZATIONS

- American Association for Pharmaceutical Scientists (AAPS)
- American Association for the Advancement of Science (AAAS)
- Controlled Release Society
- Institute of Interventional Radiology
- International Natural Product Sciences Taskforce (INPST)
- United Workforce of Interventional Radiologists