

Dr. Jeffrey M. Wells

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Education: Ph.D. Biophysics from the State University of New York at Buffalo -
Roswell Park Cancer Institute, June 2004, Buffalo, NY 14263

B.S. Physics from James Madison University, May 1994
Harrisonburg, VA 22807

Work Experience: 3/15 – present **Medical Physicist, Medical Radiological Physics,
Chesapeake Regional Medical Center** (part time)
Clinical radiation therapy physics patient treatment plan review, protocol
development, radiation assays and QA, radioactive source handling.
Linear accelerator operation and troubleshooting.

6/14 - present **Medical Physicist, Radiological Science Inc., Augusta
Medical Center**, Fishersville, VA (currently part time)
Clinical radiation therapy physics treatment plan review, software
troubleshooting, treatment plan development, linear accelerator operation.

8/13-5/14 **Medical Physicist, 21st Century Oncology**, Fairlea, WV
Treatment plan approval/QA, image analysis, photon/electron beam
calculations, laser alignment, writing procedure protocols.

1/13 – 8/13 **Medical Physicist, Radiological Science Inc., Augusta
Medical Center**, Fishersville, VA
Clinical radiation therapy physics treatment plan review, IMRT QA using
a Matrixx chamber array, patient chart checks, OLD *in vivo* dose
measurement, monthly linac QA. Equipment: Elekta Synergy, SL-18.
Software: Pinnacle, Mosaiq, IMSure, OmniPro.

4/07 (contractor)- 6/07 (salaried) until 12/12 **Senior Scientist / Program
Manager, Cipher Systems**, Annapolis, MD
Designed high accuracy algorithms for bioinformatics software tools.
Managed scientific software program development. Performed genomics
research on infectious disease agents. Analyzed best practices and
technologies in scientific topics for military and industrial clients.
Managed a \$12 dollar medical R&D program for mass casualty disaster
response. Developed a state of the art mobile operating room well under
budget. Coauthored a winning proposal awarded \$12 million.

6/09-9/10 **Medical Physics Internship, Radiological Science Inc.,
Rockingham Memorial Hospital**, Harrisonburg, VA
Part time therapeutic medical physics internship. Assisted radiotherapy
technicians in the clinic, learned monthly QA procedures, operating linacs,
and basic physics procedures. Equipment: Varian Trilogy, TomoTherapy.

Software: Pinnacle and Mosaiq. Observed construction of new clinic, acceptance testing and commissioning of new instruments.

* Declared eligible to take the ABR exams (2010).

8/05-12/06 **Senior Research Scientist, Morphix Technologies,**
Virginia Beach, VA

Developed gel phase enzymatic assays, immunoassays, and luminescent sensors for detecting biological agents.

5/05-7/05 **Scientist, RPN Enterprises,** Norfolk, VA

High voltage pulse delivery to murine tumors. Ultrasound imaging.

5/04-5/05 **NRC postdoctoral fellow, NASA Langley Research Center**
Hampton, VA

Test engineering of optical measurements, image analysis and enhancement. Created techniques for up to 800-fold improvement of signal to noise ratio.

11/02-1/04 **Guest Researcher, National Institute of Standards & Technology,** Gaithersburg, MD

Laser engineering, imaging, and chemical formulations. Construction and alignment of laser and imaging systems.

9/95-10/02 **Research Associate, Roswell Park Cancer Institute**
Buffalo, NY

Development of drug and gene delivery vectors for tumor therapy. Established frequently referenced protocol for electroporation enhanced gene delivery to tumors *in vivo*. *In vitro / in vivo* testing of temperature sensitive drug delivery vectors.

Strengths: Always looking for ways to improve processes. Excellent problem solver. Willing to put in extra effort. Experienced in the medical laboratory, hospital, and the business world. Able to translate technical concepts to nontechnical personnel. Excellent image enhancement skills. Skilled in laser alignment.

Awards: National Research Council Postdoctoral Fellowship 2004
Federal Top Secret security clearance 2009

Authorship: 11 scientific publications in peer reviewed journals. Numerous unpublished papers, reports, and manuals.

Software

Designed: ReadSieve & ReadPreparer (2011); Matchmaker & Validator (2012)