

Biomedical Engineering

[Home](#)[Intro](#)[People](#)[Education](#)[Research](#)[Industry](#)[News](#)[RU Home](#)

William Craelius

Address: 617 Bowser Road,
 Room: 124, BME Building
 Phone: 732-445-2369
 Email: craelius@rci.rutgers.edu

Our laboratory is involved with a variety of topics: cellular electromechanical transduction, membrane biophysics, prosthetic devices, and rehabilitation engineering. Current projects include the development of a novel control interface for a multi-finger robotic prosthesis, and the development of assays for cellular physical properties using nano-flow surfaces with application to cancer and angiogenesis.

Recent Papers:

1. Craelius, W, The Bionic Man: Restoring Mobility Science 295; 1018-1021 (2002).
2. Curcie DJ, Flint J, Craelius, W, An Algorithm for Linear Filtering of Tendon-Activated Pneumatic Sensor Data for Control of a Biomimetic Prosthetic Hand IEEE Transactions on Rehabilitation Engineering 9; 69-75 (2001).
3. Abboudi, R, Glass, C, Newby, NA, Craelius, W, A biomimetic controller for a dexterous hand IEEE Transactions on Rehabilitation Engineering 7; 121-129 (1999).

[Faculty Site](#) [Lab site](#)



Contribute

Contribute to Biomedical Engineering at Rutgers.

[Click here](#) for more information.



Login

Login:

Password:



Latest News

Mann Research Featured as Cover Article

December 16, 2009

Professor **Adrian Mann**抐 research on bioglass nanofibers is featured on the cover 摳Advanced Functional Materials? The article entitled, 摳Faser Spinning of Bioactive Glass Nanofibers?describes the...

The Laboratory for Computational Imaging and Bioinformatics (LCIB) Update

December 11, 2009

The Laboratory for Computational Imaging and Bioinformatics (LCIB) at Rutgers, Hospital at University of Pennsylvania, and the Digital Pathology company, Bioimagene, have just signed a 3 year sponsored...

Yarmush Research Featured as Cover Article

December 03, 2009

Professor **Martin Yarmush**抐 research in the area of bionanorobotics is highlighted as a cover article in the November issue of the journal 摳IEEE Transactions on Nanotechnology? The article entitled,...

BME Graduate Student Awarded NJCSCR Fellowship

December 01, 2009

BME graduate student and IGERT

fellow, **Jeffrey Barminko**, has been awarded a predoctoral fellowship from the New Jersey Commission on Spinal Cord Research for his project entitled 擣ncapsulated MSCs...

[More News >>](#)

