

Welcome BME Family & Friends!

**J. Crayton Pruitt Family
Department of Biomedical Engineering**

Fall 2013



UF UNIVERSITY of
FLORIDA
J. Crayton Pruitt Family Department of
Biomedical Engineering

ENGINEERS *for* LIFE.

BME @ UF at a Glance

- **1998 Graduate Program Initiated**
- **2002 Department Initiated**
- **2012 Undergraduate Program Initiated**
- **20 Primary Faculty**
- **50+ Affiliate Faculty**
- **~80 PhD students, 40 MS students**

ENGINEERS *for* LIFE.

BME @ UF:

Setting a standard of EXCELLENCE

ENGINEERS for LIFE.

20 Primary Faculty



Kyle D. Allen, Ph.D.
Assistant Professor
kyle.allen@bme.ufl.edu
(352) 273-9337
Novel strategies to diagnose and treat degenerative joint diseases.



Wesley E. Bolch, Ph.D.
Professor
wbolch@ufl.edu
(352) 273-0303
Dosimetry, computational medical physics, dose assessment.



Mingzhou Ding, Ph.D.
Pruitt Family Professor
mding@bme.ufl.edu
(352) 273-9332
Cognitive neuroscience, multivariate signal processing, multimodal neural imaging.



Jon P. Dobson, Ph.D.
Professor & Director, ICERM
jdobson@ufl.edu
(352) 294-5344 or (352) 846-3373
Magnetic micro- and nanoparticle-based biomedical applications.



David R. Gilland, Ph.D.
Associate Professor
gilland@ufl.edu
(352) 273-0302
Molecular imaging, instrumentation and algorithm development using PET and SPECT.



Aysegül Gunduz, Ph.D.
Assistant Professor
agunduz@bme.ufl.edu
(352) 273-6877
Human neuroscience, neuroprostheses, neurohabilitation.



David E. Hintenlang, Ph.D.
Associate Professor
dhinten@ufl.edu
(352) 273-0301
Real-time characterization and optimization of radiation dosimetry for therapy and imaging.



Gregory Hudalla, Ph.D.
Assistant Professor
ghudalla@bme.ufl.edu
(352) 273-9326
Nanomaterials engineered to direct immune responses for disease prophylaxis, implants, and immunotherapies.



Huabei Jiang, Ph.D.
Pruitt Family Professor
hjiang@bme.ufl.edu
(352) 273-9336
Optical, fluorescence and photoacoustic tomography and microscopy.











Benjamin G. Keselowsky, Ph.D.
Associate Professor
bkeselowsky@bme.ufl.edu
(352) 273-5878
Biomaterials and controlled release systems for vaccines, immunotherapies and implants.



Peter McFetridge, Ph.D.
Associate Professor
pmcfetridge@bme.ufl.edu
(352) 273-9325
Naturally inspired biomaterials for biologically functional implants and organ regeneration.











Brandi K. Ormerod, Ph.D.
Associate Professor
bormerod@bme.ufl.edu
(352) 273-8125
Engineered stem cell and immunomodulatory strategies for brain repair and aging studies.

			
<p>Parisa Rashidi, Ph.D. Assistant Professor parisa.rashidi@bme.ufl.edu Machine learning, data mining, big data, biomedical informatics, pervasive health and gerontechnology.</p>	<p>Carlos Rinaldi, Ph.D. Professor carlos.rinaldi@bme.ufl.edu (352) 294-6588 Nanomedicine, cancer nanotechnology, magnetic nanoparticles and transport phenomena.</p>	<p>Christine E. Schmidt, Ph.D. Pruitt Family Professor & Chair schmidt@bme.ufl.edu (352) 273-9222 Biomaterials for neural tissue regeneration and neural interfacing.</p>	<p>James F. Schumacher, Ph.D. Lecturer jschumacher@bme.ufl.edu (352) 392-0228 Bioinstrumentation, biodesign and BMIE senior design laboratories.</p>
			
<p>Blanka Sharma, Ph.D. Assistant Professor (Jan. 2014) (352) 273-9222 Nanomedicine, stem cells, biomaterials, tissue engineering, targeted drug/gene delivery</p>	<p>Ranganatha Sitaram, Ph.D. Assistant Professor ranganatha.sitaram@bme.ufl.edu (352) 273-6876 Neuroscience and neuroimaging, brain-computer interfaces and neurofeedback and connectomics.</p>	<p>Hans van Oostrom, Ph.D. Assoc. Professor & Assoc. Chair oostrom@ufl.edu (352) 273-9315 Human physiologic simulation to enhance non-invasive patient monitoring and education.</p>	<p>Bruce Wheeler, Ph.D. Professor bwheeler@ufl.edu (352) 273-9313 Brain-on-a-chip, micropatterning neurons and microelectrode arrays, neural signal processing.</p>

+ over 50 Affiliate Faculty

Dedicated and Talented Staff

			
<p>Zac Bielling Fiscal Officer zbielling@ufl.edu (352) 273-9314 (352) 392-0883</p>	<p>Diana Dampier Office Assistant fiscal@bme.ufl.edu (352) 273-8256</p>	<p>Andrea Fabic Graduate Advisor gss@bme.ufl.edu (352) 273-8096</p>	<p>Sommer Green Special Projects Manager scgreen@ufl.edu (352) 273-6922</p>
			
<p>Michael W. Masem Director of Development mmasem@eng.ufl.edu (352) 392-6795</p>	<p>Tifiny McDonald Undergraduate Advisor aso@bme.ufl.edu (352) 273-9321</p>	<p>Ruth McFetridge Admissions Assistant admissions@bme.ufl.edu (352) 273-9320</p>	<p>Dawn Smith Office Manager office@bme.ufl.edu (352) 273-9318</p>

Growing Student Body



BME @ UF:

Many SUCCESSES for past year

ENGINEERS *for* LIFE.

Acknowledging Prior Leadership



Associate Chair Dr. Hans van Oostrom presents Dr. Wheeler an award recognizing his service as Chair.

Dr. Bruce Wheeler served as the Acting Chair of BME for the past four years.

Under Dr. Wheeler's leadership:

- the department more than doubled in size
- the new UG degree program was implemented in Fall 2012

ENGINEERS for LIFE.

New Faculty Hired



Dr. Greg Hudalla

Fall 2013

Nanomaterials to direct immune responses



Dr. Parisa Rashidi

Fall 2013

Biomedical informatics and machine learning



Dr. Blanka Sharma

Spring 2014

Nanomedicine and stem cell engineering

ENGINEERS for LIFE.

New Staff Hired



Zac Bielling
Fiscal Officer



Mike Masem
Director of Development



Andrea Fabic
Graduate Advisor



Dawn Smith
Office Manager



Sommer Green
Special Projects Manager

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A New Online Look



New Leadership Seminar Series

UF UNIVERSITY of FLORIDA
Joseph P. and Ruth E. Smith, Department of Biomedical Engineering

ENGINEERS for LIFE.

Biomedical Engineering Leadership Seminar Series

Spring 2013

Monday, March 11 - 4:00pm
Robert Nerem, Ph.D.
Parler H. Pett Distinguished Chair for Engineering in Medicine, Institute Professor & Founding Director of the Parler H. Pett Institute for Bioengineering and Bioscience (PBIB), Georgia Institute of Technology
Location: Communicore C1-17

Monday, May 6 - 4:00pm
Gordana Vunjak-Novakovic, Ph.D.
Muller Foundation Professor of Biomedical Engineering and Medical Sciences
Department of Biomedical Engineering, Columbia University
Location: Communicore C1-17

Fall 2013

Monday, October 14 - 4:00pm
Martine LaBerge, Ph.D.
Professor and Chair, Department of Bioengineering, Interim Dean, College of Engineering and Science
Clemson University
Location: Communicore C1-15

Monday, October 28 - 4:00pm
Douglas Lauffenburger, Ph.D.
Ford Professor of Bioengineering and Department Head, Biological Engineering
Massachusetts Institute of Technology
Location: Communicore C1-15

Monday, November 4 - 4:00pm
Kyriacos Athanasiou, Ph.D.
Distinguished Professor and Chair, Department of Biomedical Engineering
The University of California at Davis
Location: Communicore C1-15

Contact Information: Sommer Green, admin@bme.ufl.edu

Spring 2014

Monday, January 13 - 4:00pm
Arthur Coury, Ph.D.
Independent Medical Services Professional
Principal, Coury Consulting Services
Location: TBD

Monday, March 10 - 4:00pm
Gilda Barabino, Ph.D.
Dean, Grove School of Engineering
The City College of New York
Location: TBD

Monday, April 7 - 4:00pm
Shankar Subramaniam, Ph.D.
Professor and Chair, Department of Bioengineering
University of California, San Diego
Location: TBD

Networking and Team Building Events



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Student Organizations – Get Involved!



**Biomedical
Engineering Society
(BMES)**



**Graduate Student
Council (GSC)**



**Society of Health and
Medical Physics Students
(SHMPS)**



**Society for
Biomaterials**



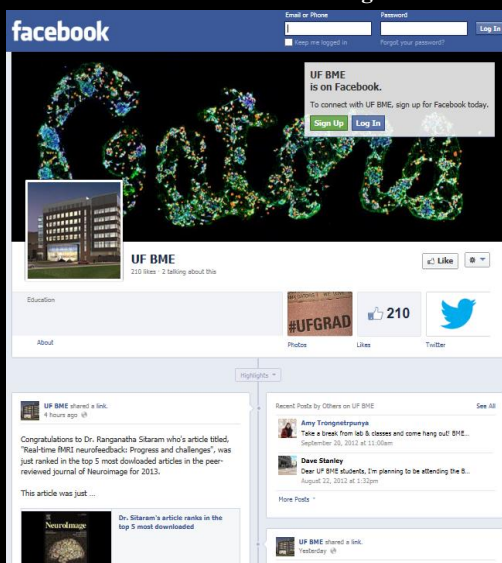
**Pre-health
engineering society**

For more information:
http://www.bme.ufl.edu/student_activities

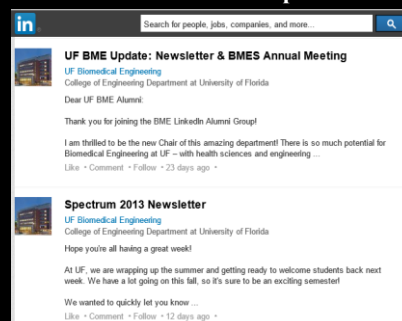
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Opportunities to Stay Connected!

UF BME Facebook Page



UF BME Alumni Linked In Group



Major Awards & Recognitions



Dr. Brandi Ormerod promoted to Associate Professor with tenure



Dr. Bruce Wheeler elected as BMES Fellow



Dr. Jon Dobson elected as Fellow of the Society of Biology

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Major Awards & Recognitions



Dr. Christine Schmidt elected Fellow of American Assoc. for Advancement of Science



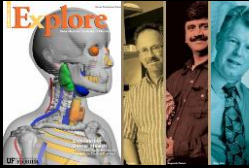
Dr. Carlos Rinaldi received Int. Journal of Nanomedicine Early Career Award



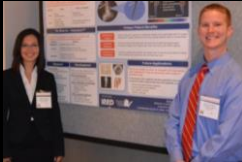
Dr. Mingzhou Ding named UF Research Foundation Professor

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Major Awards & Recognitions



BME @ UF featured in summer edition of **Explore Magazine**



Dr. James Schumacher oversaw UG student finalist team at ASIAO design competition



UF BME Graduate Students in Medical Physics Program captured national and state awards

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BME @ UF:

Looking to the FUTURE

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Vision

The J. Crayton Pruitt Family Department of Biomedical Engineering at the University of Florida will be *one of the leading biomedical engineering programs in the nation.*

The Department will *leverage the unique co-localization of talent and resources* in engineering, medicine, veterinary sciences, dentistry, and technology commercialization to maximize opportunities for interdisciplinary student training and the clinical translation of technologies that will advance and improve health care in the state of Florida and worldwide.

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Continued Growth in Size & Excellence

- **Faculty growth** to 25+, including a senior hire for the Pruitt Leadership Chair
- Departmental **recognitions** and visibility
- **Partnerships:** team grants and increased collaboration
- Enhanced **alumni & industry connections**
- Promoting a **strong camaraderie** and team culture
- **Mentoring** programs
- Attention to **rigor of educational programs**

Goal: Top 10 BME Program

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Upcoming Important Dates

Graduate Student Town Hall/State of the Department Address

September 3rd – 4pm in Communicore C1-17

College of Engineering Innovation & Reunion Weekend

September 19th-21st – details TBA

Affiliate Research Mixer

October 29th – 3-5pm in BMS Atrium

Pruitt Research Day

November 18th – details TBA

Join us at BMES!



UF Reception:

Thursday Sept. 26

8:00 pm – 9:30 pm

Sheraton Hotel

Room: Issaquah A& B

Stop by UF booth in the Exhibit Hall!



ENGINEERS *for* LIFE.

Thank you for your support and help
as we strive to achieve our vision!



J. Crayton Pruitt Family
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