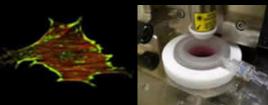
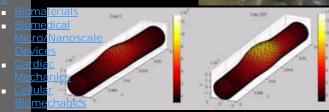
Webpage: http://biomed.tamu.edu/faculty/humphrey/





- <u>ntinuum</u> mechanics
- ilities primary goal of our laboratory is to synthesize rapidly increasing gnetic sonance vasculature within a general theory of growth and remodeling that
- aging permits development of computational fluid-solid-growth models. Such dical models promise to enable us, for the first time, to predict disease progression and responses to clinical interventions, and thereby to stems change the paradigm of medical device design. Devices should be ety designed based on how the tissues will adapt in response to the altered
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- <u>nomaterials</u>
 - photography
- Jay D. Humphrey received the B.S. degree from Virginia Tech and the M.S. ecigned Ph.D. degrees from The Georgia Institute of Technology, all in agirEngineering Science and Mechanics, and he completed a post-doctoral
- ticalellowship in Cardiovascular Research at The Johns Hopkins University. sen rofessor Humphrey has authored a graduate textbook (Cardiovascular Solid
- howerhanics: Cells, Tissues, and Organs), co-authored an undergraduate sentextbook with a former student (An Introduction to Biomechanics: Solids
- hopend Fluids, Analysis and Design), co-authored a general textbook (Style and meEthaiss of Communication in Science and Engineering), co-edited a research book (Cardiovascular Soft Tissue Biomechanics), contributed chapters to 16 magther books, and published over 140 journal articles. He was elected to the Tissue US National Committee on Biomechanics and the World Council of
- roseiomechanics, and he serves as co-Editor of the international journal Biomechanics and Modeling in Mechanobiology. He is also a Fellow of the American Institute for Medical and Biological Engineering and a Fellow of the American Society of Mechanical Engineering.

Biomechanics Aneurysms Cerebral vasospasm Hypertension Soft tissue growth and remodeling Tissue engineering

Keywords

Biomedical Continuum Biomechanics Laboratory

Engineering?

Things You Can

With

Your

Degree

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Applicant

Information

Admissions

Information

- Application
- Process

 Requirements
- Deadlines
- Admissions

- FAQs Prospective

Graduates

- <u>Fact</u>
- Brochure
- <u>Find</u>

 - <u>Adviser</u>
- <u>Transfer</u>
- Research
 - <u>Labs</u>

 - <u>Matrix</u> <u>Publications</u>
- Financial

Support

- Scholarships/
- Cost

 - Comparison
- Orientation
 - ScheduleSlides
- Research
 - <u>search</u>
 - <u>os</u>
 - Keyword
 - atrix
 - **Faculty**
 - Listing
 - Publications
- Graduate

Students

- Poster Days
- <u>Publications</u>
- Other
- Education
- <u>La</u> Degree

Information

- DegreePlans
- Course
 - escriptions eveling
- - <u>urses</u>
- Forms/Paperwork
 - PHD
 - <u>MS</u>
 - <u>MEN</u>
 - <u>bation</u>
- <u>icies</u>
- nding
- Orientation Slides

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People
    • <u>Faculty</u>
   o Stan
Research Staff
Graduate
Students
Why
              Biomedical
              Engineering?
                  ■ Things
                     You
                     Can
                     Do
                     With
                     Your
                     Degree
                         ■ <u>Where</u>
                            <u>They</u>
                          Center
                  Entrepreneurship

    Internships

    Collaborations

                        <u>80</u>
                        <u>eet</u>
           Applicant
              Information
                  Admissions
                     Information
                         Application
                            Process
Requirements
                            <u>Deadlines</u>
                            <u>Graduate</u>
                         FAQs
                  Prospective 
Graduates
                         ■ Fact
                         Brochure
                         ■ <u>Find</u>
                            <u>Adviser</u>
                  Policy for
                     <u>Transfer</u>
                  Research
                         Labs
                         Matrix
                         Publications
                  Financial
                     Support
                         Scholarships/
                            <u>Living</u>
```

Orientation

■ <u>Schedule</u> -/MBA

- Schedule Slides Research <u>search</u> <u>yword</u> <u>trix</u> ulty ting

 - <u>Publications</u>
- Graduate
- Students
 - Poster
 - <u>ys</u>
 - <u>blications</u>
 - Other
 - Education
- Degree
 - Information
 - gree
 - <u>ns</u>
 - urse
 - Descriptions
 - Leveling
 - Courses
 - Forms/Paperwork
 - PHD
 - MS
 - MEN
 - Probation
 - **Policies**
 - Funding
 - Orientation

 - SlidesSchedule/MBA
- Students

 Research

 Contact Us

- Info For:
- Current Students

 o Undergraduate

 - - - Biomedical
 - Engineering?

 Things
 You
 - - Can
 - Do
 - With
 - Your Degree
 - Where

 - <u>They</u>

 - Career <u>Center</u>
 - EntrepreneurshipInternships

 - Collaborations
 - 2008
 - **Fact**
 - <u>Sheet</u>
 - Applicant
 - Information
 - Admissions
 - Information Application

 - **Admissions**

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<u>Visitor Center</u>

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