



**Top 10 Reasons
to choose
Biomedical Engineering
(BME)**



Reason 10 - Everyone else is doing it

Biomedical Engineering is one of the
fastest growing disciplines

27% increase in jobs 2004 -2014



Reason 9 – Mission ~~Im~~possible

Biomedical Engineers apply:

- engineering design and analysis
- problem-solving skills

To solve complex problems in healthcare



Reason 8 – Varied Career Paths

-with a BSBME you can...

Work in Industry (R&D, product development)

Enter professional programs (Doctor, Dentist, Lawyer, MBA)

Government Research

National Labs

Biomedical Consulting

Start-up Companies

Academic Teaching

Marketing /Technical Sales

Develop and Implement Regulatory/Patent Policy



Reason 7 – Imagineering

The Al Mann Foundation recently gave Purdue **\$100 million** specifically designated for taking biomedical engineering ideas from concept to technology for licensing

Weldon School faculty surpass all other engineering schools in number of patents filed and technology developed



Prof. Geddes Awarded National Medal of Technology



Reason 6 – Fascination with the human body

- Anatomy and Physiology topics are integrated into the BME curriculum
- Dr. Babbs and Dr. Tacker are awesome
- Between 10 and 20% of BME students are headed for **Medical School** – even though the BME curriculum is probably the hardest route to the MD



Reason 5 – We are FAMILY

- BME admission is capped at **72** students per year
- Small classes make for **better interactions** with the faculty
- Integrated lab courses with **teams** of 2 – 4
- BME has its **own** computer lab, small group study rooms and study areas all housed in a beautiful new building



The BME Family





The BME Building





Reason 4 – Job Opportunities



Delivering what's next.™





Reason 3 – Experimentation and discovery

- Nearly **80%** of Weldon School students have had research experience by the time they are seniors
- We have a 5th year BS/MS program to help fast track students into prestigious PhD programs across the country
- Weldon School mentors students for the combined degree MD/PhD in partnership with IU School of Medicine



Reason 2 – Challenge

- Coursework in other engineering disciplines
- Labs that go with each of the core classes in which you **APPLY** what you learn
- Senior Design
- Focus on different areas of BME through electives and research – Exposure!



Reason 1 – Make a difference in the world



**Cook Biotech /
Weldon School
products featured
on History Channel**



**Miniature implanted
devices could treat
epilepsy, glaucoma**



**Low-cost devices to
assist African AIDS
patients**



**Nanomedicine as the
future of healthcare**



Video



Next Step: Applying to BME

- Complete the First-Year Engineering curriculum
- Submit an application in January
- Take admission exam at the beginning of spring semester
 - ★ Registration deadline: Wednesday, January 20
 - ★ Exam Date: Saturday, January 23, 10am, EE129

BME takes a holistic approach to admission

- ★ Review application
- ★ Exam
- ★ High school scores
- ★ Cumulative first semester GPA
- ★ Engineering Admission Index (EAI)



Advising for Spring 2010

- **CHM 116** or **124** must be completed for entry into BME
- **CS 159** must be completed before the junior year in BME

Additional Course Suggestions for Students ahead in the FYE Curriculum

- **COM 114** Speech and Communication is recommended for students without a lot of public speaking experience due to the number of presentations in BME
- **General education courses**
- **CGT 163** Introduction to Graphics for Manufacturing
- **ENTR 200** Introduction to Entrepreneurship



One Last Piece of Advice

The best way to figure out what you like and what you want to do in your career is to *ask questions* and *get involved!!*

- Talk with a Biomedical Engineer or Weldon Student
- Join the BME Society in your freshman year
- Take a building tour (1:30 pm every weekday)





Contact Information

For more information, see our website:

engineering.purdue.edu/BME

Visit our Academic Programs Office:

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Questions?