Workshop on BME Education: A Reality Check on Biomedical Engineering Education

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The mission of the IFMBE is to encourage, support, represent and unify the world-wide Medical and Biological Engineering community in order to promote health and quality of life through advancement of research, development, application and management of technology.
Formal BME Education

• First program in 1921
  • Oswalt Institute for Physics in Medicine, Frankfurt, German (Fore runner of Max Plank Institute)

• BME Educational Programs around the world
  • Proliferation
  • Great Variation

• Efforts in Europe, such as BIOMEDEA (Supported by IFMBE)
  • Advocates modules in:
    • Biomedical Engineering foundations (core topics)
    • Biomedical Engineering in-depth topics
    • Mathematics
    • Natural Sciences
    • Engineering
    • Medical and biological foundations
    • General and social competencies (soft skills)
Roles:
- Education
- Value Creation
- Commercialization
- Integration
- Regulatory
- Assessment
- Management
- Policy

Taken from: Human Resources For Medical Devices. The role of Biomedical Engineers. WHO Medical device technical series.

Source: Fred Huse, 2016.
Diversity in Roles of Biomedical Engineers

Reality Check
Is BME Curriculum relevant to current HR demand?

Biomedical Engineering Education