Dr. Carmen Gomes, an assistant professor in the Department of Biological and Agricultural Engineering at Texas A&M University and a Florida colleague have developed a biosensor that can detect listeria bacterial contamination within two or three minutes. According to Gomes, who is also a Texas A&M AgriLife Research engineer, the same technology can be developed to detect other pathogens such as E. coli O157:H7. But listeria was chosen as the first target pathogen because it can survive even at freezing temperatures. It is also one of the most common foodborne pathogens in the world and the third-leading cause of death from food poisoning in the U.S.
Impact

- 10 National Academy of Engineering members and 1 National Academy of Science member (FY15)
- 9 International academy members (FY15)
- Technology commercialization (Since FY94)
  - 202 License agreements
  - 27 Start-up companies
- Highly cited researchers (by Thomas Reuters)
  - 2001 – 2
  - 2014 – 3
- 158 Fellow grades in professional societies
- 63 Authored textbooks and book chapters
- 81% of May 2012 BS engineering graduates had job offers or plans to pursue graduate school (data voluntarily reported by students to the Texas A&M University Career Center; actual number may be higher)
- 610 PhDs in academia (54% in US Institutions since 1987)

Productivity

- Rankings
  - Graduate – 7th
  - Undergraduate – 8th (Source: U.S. News & World Report, public institutions)
- 1,370 Refereed journal papers (2014)
- 1,261 Selective conference papers (2014)
- 244 US and international patents (since FY94)
- $72.2 million in research expenditures (FY14)
  - ~54% Federal
  - (TEES Centers funding not included)
- 84 Young Investigator awards (NSF CAREER, Air Force, Navy, DARPA, and PECASE, since 2003)
- Number of graduates (COE for FY13)
  - BS – 1,633
  - MS – 583
  - PhD – 274
- Average years to degree (FY09-FY13 average)
  - BS – 4.65 years
  - MS – 2.31 years
  - PhD – 5.58 years
- Students with international experiences through study abroad program participation
  - FY14 – 601
  - FY13 – 594
  - FY12 – 490
  - FY11 – 434
  - FY10 – 372
- Distance education (TEES & COE, AY15)
  - Number of courses – 83
  - Number of students – 1,221
- 12,750 Scholarships and fellowships awarded (FY15)
- More than $29.6 million in scholarships and fellowships awarded (2012)
- Occupied Endowed Positions Chairs – 37
  - Professorships – 55
  - Career Development Professorships – 13
  - Faculty Fellows – 16

Service

- 506 Editorships and editorial board memberships
- 350 Memberships in professional society committees
- Continuing education (TEES & COE, FY14)
  - Number of courses – 155
  - Number of students – 12,827
- One faculty on interpersonal agency appointment
- 462 Days external consulting (AY14)

Diversity

- Faculty (Fall 2014)
  - Male – 85.1%
  - Female – 14.9%
  - Hispanic – 7.8%
  - African-American – 1.4%
  - White – 62.5%
  - Asian – 27.5%
  - Native American – 0.8%
- Staff
  - Male – 37.6%
  - Female – 62.4%
  - Hispanic – 10.6%
  - African-American – 3.1%
  - White – 77.9%
  - Asian – 6.6%
  - Two or more – 0.4%
  - Other – 1.33%
- External Advisory Committees
  - Male – 90%
  - Female – 10%
  - African American – 2%
  - Hispanic – 5%
  - White – 92%
  - Asian – 1%

STUDENT ENROLLMENT (College of Engineering)

<table>
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<tr>
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<th>Undergrad</th>
<th>Grad</th>
<th>Total</th>
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<tr>
<td>Fall 2014</td>
<td>10,556</td>
<td>3,391</td>
<td>13,947</td>
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<td>Fall 2013</td>
<td>9,253</td>
<td>3,075</td>
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<td>Fall 2012</td>
<td>8,397</td>
<td>2,884</td>
<td>11,281</td>
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<td>Fall 2011</td>
<td>8,329</td>
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<td>Fall 2010</td>
<td>8,158</td>
<td>2,901</td>
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STUDENT CREDIT HOURS (SCH) and WEIGHTED STUDENT CREDIT HOURS (WSCH)

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<td>FY10</td>
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STUDENT DIVERSITY (College of Engineering - Fall 2014)

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<td>19.7%</td>
<td>2.3%</td>
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<td>Master’s</td>
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<td>6%</td>
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<tr>
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<td>3.9%</td>
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<td>3.1%</td>
<td>70.6%</td>
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