The future of the microbiological technician

Papendal 22-03-2016

Ellen Hilhorst, Director Institute for Life Sciences & Chemistry
University of Applied Sciences Utrecht
Content

- Organization bachelor programs
- Consultation stakeholders
- Development in number of students
- Preliminary outcomes consultation stakeholders
- How can education respond?
Domain Applied Science

- 9 bachelor programs at 15 universities of Applied Sciences:
  - Applied Science
  - Forensic Science
  - Bio-Informatics
  - Biotechnology
  - Biology and Medical Laboratory Research (4680)
  - Chemistry
  - Environmental Science
  - Engineering Physics
  - Chemical Engineering

- 11000 bachelor students
- 28 senior lecturers
- 2 Master programs
Biologie en medisch laboratoriumonderzoek

Biologie en medisch laboratoriumonderzoek wordt gegeven op:

- Avans Hogeschool Breda
- Hanzehogeschool Groningen
- Hogeschool Inholland Amsterdam
- Hogeschool Leiden
- Hogeschool Rotterdam
- Hogeschool Utrecht
- Hogeschool van Arnhem en Nijmegen
- NHL Hogeschool en Hogeschool van Hall Larenstein
- Saxion Deventer
- Saxion Enschede
- Stenden Hogeschool
Board of Domain Applied Science

Regional committee

National committee

Advisory board
New students Biology and medical research

- 2010: 1048
- 2011: 1112
- 2012: 1212
- 2013: 1481
- 2014: 1717
- 2015: 1419
Input stakeholders:

- Bottleneck is diagnostics, reduction of the number of internship positions, insufficient number of clinical internships
- Less employment due to automation, robotics in the laboratories, merging of hospitals
- ICT skills and bio-informatics
- Demand of analytical skills
- Molecular diagnostics
- Lab on a chip, point of care testing in the near future
How can education respond?

- Maintain the numerus fixus
- Restrict the number of students in diagnostics, promote research
- Investigate other possibilities for employment:
  - Food industry
  - Food safety
  - Water purification
  - Bioprocess technology
  - ???