

MECH5490 Biomaterials Assignment

Technical Report: Material requirements for a biomedical application

This coursework involved the preparation of a report that details the considerations required for a material used in a biomedical application. The report should be no more than 6 pages of content (references are in addition) and should include images/figures (with appropriate citation).

Choose one application from the following (please sign up for your chosen application on Minerva, under the 'Assessment' section):

- Wound care
- Incontinence

Write a specification based on the requirements of the device or application

[25 marks]

Identify three potential biomaterials to be used within the device

[5 marks]

Discuss the relative merits and limitations of each material for the application, drawing upon your own review of the research literature and market data

[40 marks]

Provide a rationale for your final material selection

[20 marks]

Marks will be awarded for appropriate use of literature and sources, presentation and use of images and figures to support discussion

[10 marks]

Dr Claire Brockett/Dr Mike Bryant

Documents to be uploaded to the submission box on Minerva through 'Turnitin'

Deadline to be confirmed following the first staff-student forum of term