



Bioprocess Modeller for biological processes

The CeBER Bioprocess Modeller is a holistic process flow-sheeting design tool for calculating inputs and outputs of intra- or extra-cellular systems (or for biomass growth), under aerobic or anaerobic conditions.

The Bioprocess Modeller tool is presented in MS-Excel and provides outputs that can be used for optimisation decisions, preliminary costing calculations and calculation of environmental impact, for example in life-cycle assessment.

In contrast to other established, comprehensive design packages, minimal process details are required, making this an ideal tool for users with limited Biochemical Engineering expertise.

Benefits

- Easy to use and accessible to a novice in flow-sheeting design
- The novel built-in database allows for the automatic calculation of unknown parameters based on other inputs made which allows for quick results

Market

Industrial bioprocess companies, consultants, business developers, and researchers who need material and energy balance as well as equipment sizes.

Intellectual Property Status

Type	Region	Application No	Filing Date	Priority Date
Provisional	South Africa	2008/10356	24-Nov-08	24-Nov-08
National Phase	South Africa	2009/08277	23-Nov-09	24-Nov-08

The inventors are Sue Harrison and Kevin Harding.

Purchase

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Keywords:

Bioprocess, bioprocess optimisation, bioprocess development, bioprocess engineering, aerobic/ anaerobic

Intellectual Property Rights:

Patent, Copyright

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