

# Lifecycle Maintenance for Models and Data

Gain consistently accurate up-to-date analysis through lifecycle maintenance.

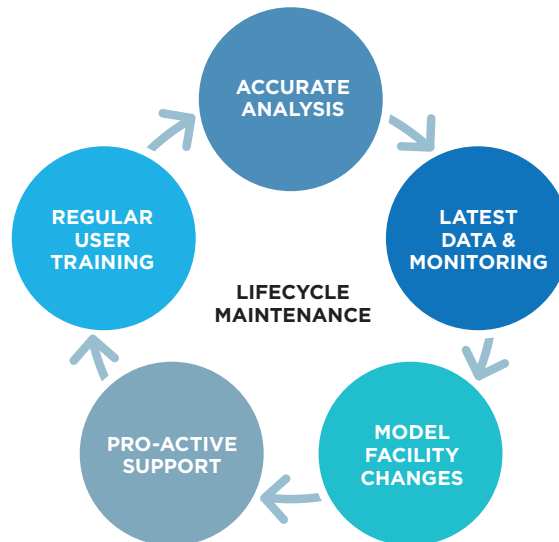


The best models are those that don't just answer a single question, but continue to be useful to the business months and years into the future. The problem is that facilities are rapidly changing, and even the best model quickly becomes stale. Bioproduction Group helps maximize the return on investment you've made in your modeling toolsets through comprehensive lifecycle management. That means your models are always accurate and can be used to deliver ongoing value months and years into the future.

Bioproduction Group's model maintenance service demonstrates our commitment to life-cycle support for your models and modeling frameworks. Other companies throw models 'over the wall' once a project ends: our team, with intimate knowledge of your manufacturing facilities and processes, stands by you with comprehensive support and maintenance of your models.

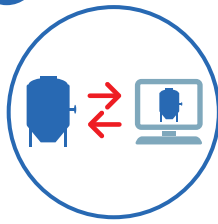
## LIFECYCLE MAINTENANCE

Bioproduction Group provides support over the lifetime of your model, making updates via a series of regular meetings with process experts at your facility. We add detail, integrate data, perform analysis, and validate the model to ensure it continues to reflect plant reality. Our model maintenance service means your model remains accurate and increasingly embedded into your business processes. That way, when you and your team are running 'what-if' and other analyses, you're always working with the latest information that reflects what really happens in your facility.



Our Lifecycle Maintenance service ensures that your models can be used to perform accurate analysis - today, tomorrow, and every day into the future. This includes monitoring services to ensure that your databases are accurate, and regular pro-active meetings with your engineers so any process changes are incorporated into your models. Our comprehensive approach also includes regular user training, to enable your staff to become best-in-class modeling experts.

# BIO-G



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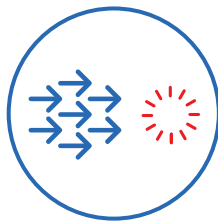
## EXPERIENCE AND PROVEN RESULTS

Bio-G specializes in biotech. That means when we maintain a model, that model exactly matches the facility or process design. Period. If you've ever built a model before, you know that simple assumptions and trade-offs can turn a highly accurate model into a dangerously non-predictive one. Bio-G provides best-in-class model maintenance using approaches that are proven to deliver high quality results.

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**“Anyone can build a model. Building and maintaining an accurate model: that’s the key to delivering value.”**

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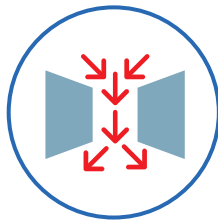
## ANALYSIS SUPPORT

Our model support also includes a comprehensive analysis service. Our modeling staff are experts in operations research and industrial engineering for biomanufacturers, and can provide turnkey analysis to support your ongoing modeling needs. That means answers when you need them - even if your staff are busy on other projects.

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**“Bio-G’s real strength is their turnkey support. They make sure our models are always accurate, and even perform time-sensitive analysis for us.”**

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## GXP VALIDATION

Bio-G’s software can be used for GxP decision-making in your facility through a comprehensive GxP validation. Our software is written and maintained to GxP standards including required procedures, quality assurance, internal and user acceptance testing, and CFR 21 part 11 compliance.

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## BENEFITS

Our intimate understanding of biotechnology manufacturing processes, combined with our robust products and services, has resulted in millions of dollars in annual savings for our clients. Our model maintenance service follows on from our audit and model construction services, and ensures models are up to date so customers are able to find bottlenecks, maximize throughput, lower risk, and accurately understand the outcomes that can be expected from process changes.

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For more information visit:  
[www.bio-g.com](http://www.bio-g.com)