

# Biopharmaceutical services

Providing bespoke project solutions

**Mott MacDonald is a diverse global management, engineering and development consultancy delivering solutions for public and private clients worldwide. We are one of the world's largest employee-owned companies with over 14,000 staff, we have principal offices in nearly 50 countries and projects in 140.**

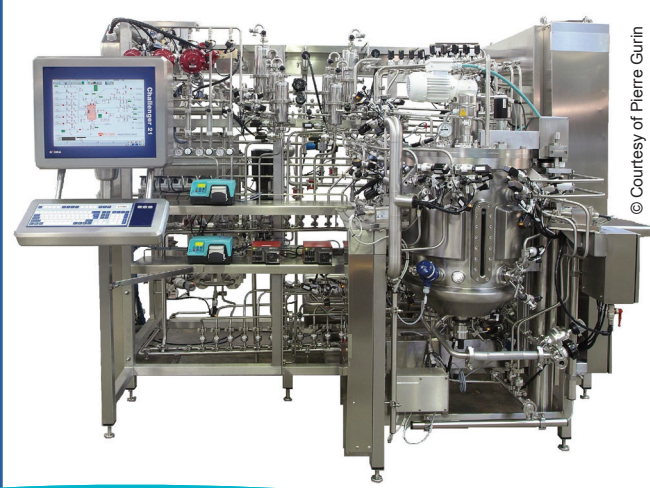
**Is your project a small retrofit? Is your project a new-build? Do you need strategic business input?**

You can depend on Mott MacDonald to help you to meet your technical and business needs on all projects – large and small – at all phases, from conception to qualification and beyond. Mott MacDonald has the skills, experience and resources, to meet the challenges of the biopharmaceutical industry. We understand that our clients are working to deliver products to market within tight time constraints. We can resolve your problems and deliver a range of creative technical and business solutions that will not only meet the needs of today but provide a firm foundation for the future.

Our forte is transforming project ideas into reality. Our holistic approach is rooted in a complete spectrum of skills covering all stages of the development cycle – right from preparing the business case and advising on related issues, to designing and implementing the solution and providing ongoing support. We work in partnership with all our customers, ensuring through our commitment to continuous improvement and the highest level of customer care that we add maximum value to every project and exceed their expectations, not merely satisfy their needs.

Mott MacDonald has a wide range of biopharmaceutical process engineers, architects and building services specialists supported by a wide range of building and business capabilities.

On every project, large and small, we work with our customers to understand their requirements in order to deliver the highest quality of service and project performance. A key strength is our ability to see a project from concept to completion using our in-house skills, supported by a wide network of expertise from across the Mott MacDonald Group. This integrated approach encourages innovation, reduced costs and fast delivery. Whether it is for the launch of a new product, increased production capacity or improved operational efficiency, our flexibility and broad range of services can be tailored to your exact requirements.



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Our technical expertise can deliver complex facilities that meet the demanding, and often conflicting, requirements of current good manufacturing practices (cGMP), biosafety and general safety and environmental factors. The following questions are typical to many projects:

- How much do you need to make?
- When do you need to start making it?
- What are the regulatory requirements?
- Will the facility be single or multi-product?
- What expansion capacity is required?
- What is the manufacturing technology?
- What options are open for debate (eg fixed plant or single-use)?
- What levels of automation will be required?
- What are the utility demands?

We can provide solutions to these questions and many more.

### Client driven solutions

We provide facilities for:

- Active pharmaceutical ingredients
- Antibiotics
- Aseptic processing
- Biocontainment
- Clean utilities
- Fill/finish
- Hormones
- Monoclonal antibodies
- Pilot plants
- Regenerative medicine
- Regulatory affairs
- Research and development facilities
- Stem cells
- Therapeutic proteins
- Vaccines
- Validation
- Waste treatment

Our professional services:

- Basic and detailed design
- Business case development
- Commissioning and qualification
- Concept studies
- Construction management
- Consultancy
- Due diligence
- Engineering
- Environmental assessments
- Estimating and cost control
- Feasibility studies
- Master planning
- Procurement
- Safety reviews (HAZOP, HAZAN, HACCP, FMEA)
- Start-up support
- Validation

Our clients include:

- AstraZeneca
- Elanco
- Eli Lilly SA
- GSK
- Health Protection Agency
- Ipsen Biopharm
- Novartis
- Pfizer

### Contact us

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