

# BIOADVISE

Consulting

## ENGINEERING SERVICES

PHARMA • BIOTECH • LIFE SCIENCES • COSMETICS



Biopharmaceuticals, Life Sciences and Cosmetics are fast-growing fierce competitive sectors. As for any booming business, it is essential to surround yourself with partners endowed with the capacity to answer both technical, regulatory issues and deadlines in order to be able to grow on a permanent basis.

**BioAdvise** is a team of experts specialized in engineering consulting services who mainly operates in bioprocesses and biocontained environments.

Their knowledges in the latest regulations, evolutions and innovations of the sector are your keys for a perfect command of the processes, biological risks and safety rules that concern the very stringent field of the Bioprocessing.

## APPLICATION FIELDS

Our practical experience in both industrial activities and high containment laboratories enables us today to offer you a real know-how in the understanding and completion of your project. The members of our multidisciplinary team will bring you their expertise in various fields:

### APPLICATIONS

Vaccines, veterinary products, Active Pharmaceutical Ingredients, proteins, cell therapies, sterile and injectable blood products, growth media, liquid and semiliquid extracts, GMO, low and high risk biological effluent

### BIO-PROCESS

Fermentation, cell culture, inactivation, filtration, crushing, sterilization, bioprocessing tanks, Sterilization in Place, Cleaning in Place, decontamination, neutralization & product characterization

### ENVIRONMENT

Production area, clean rooms, BSL1, BSL2, BSL3, BSL4 containment labs, new or existing buildings and rooms

### INDUSTRIAL UTILITIES

Soft water, cold water, hot water, superheated water, steam, compressed air, gas, waste water treatment



Vaccine Makers

Biotech Companies

Research & Hospital Labs

Cosmetic Industries

Nutraceutical Industries

## OUR EXPERTISE

Boosted by its experience in pharmaceutical and biotechnological bioprocesses, **BioAdvise** provides a wide range of services to give you the opportunity to specify your needs, select the most appropriate solutions, make them operational, qualify them and follow them during their entire life.

### TECHNICAL ENGINEERING

- Tender documents
- Offers evaluation (CAPEX-OPEX)
- Supplier audit and manufacturing inspection
- Project management and works coordination
- Optimization of your processes (hydraulical, thermal, mechanical, automation)

### QUALIFICATION - VALIDATION

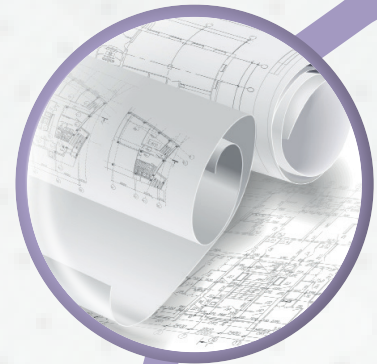
- Design Qualification (DQ)
- FAT - SAT
- Preliminary tests before Performance Qualification
- Assistance to Performance Qualification (PQ), Installation Qualification (IQ) & Operational Qualification (OQ)

### PERFORMANCE ASSESSMENT

- Technical audit of the existing system
- Thermal performances validation
- Hydraulical performances validation
- OPEX audit
- Functional analysis
- Process and instrumentation drawing illustrating the recommended changes
- Process and thermal sizing of the recommended solutions

### RETROFITTING

- Technical review of both existing equipment, room layout and access
- Option to optimize space in an existing room
- Evaluation for optimization of storage capacity
- Revamping of the existing materials
- Energy analysis and optimization
- Life cycle assessment: capital investment, operating and maintenance costs





**BIOADVISE**

Consulting

**ENGINEERING SERVICES**

PHARMA • BIOTECH • LIFE SCIENCES • COSMETICS

**BIOADVISE INC.**

2572 Boulevard Daniel-Johnson  
Laval, QC H7T 2R3  
CANADA  
T. +1-450-902-2614  
E. [info@bioadvise.com](mailto:info@bioadvise.com)

**[WWW.BIOADVISE.COM](http://WWW.BIOADVISE.COM)**

