

Chemistry Consulting

## Chemical analysis Development

### Consultants with expertise in chemical analysis development

Chemical analysis development is the key to a fast and LEAN production. Often, older slow and imprecise analytical methods may provide a sluggish production of varying quality. In regulated industries it can go completely wrong as the authorities can close production facilities, if there is no track of release assays. Chemistry Consulting offers chemical analysis development to ensure your company gets shorter response time, more accurate answers and high-quality analysis.



Our expertise reaches into many corners of analytical chemistry, but especially we have extensive expertise in:

- Method development, especially HPLC
- Optimization of existing methods
- Optimization of software-based workflow
- Qualification and validation of analytical equipment
- Training of employees in analysis technologies, GMP, troubleshooting etc.

Many companies often have problems with the selection and implementation of new analytical equipment, possibly with a technology not previously used. In this case we can provide a complete process in which we first identify the appropriate analytical methods, check the market for suitable analytical equipment, ensure acquisition, installation, method development, qualification of equipment and subsequent training. This gives the customer the shortest possible start-up time, since our people can work full time on the task until it is resolved.

## Chemicals

### Proper treatment of chemicals

Chemicals are used in both chemical and non-chemical industries. Companies may often be uncertain about proper use, storage and handling of chemicals. In this case Chemistry Consulting can be the knowledgeable partner that ensures that your company:

- Make the optimal choice of chemicals
- Store chemicals correctly
- Dispose chemicals correctly



We can also offer training, safety instruction and safety review to groups of personnel without significant knowledge of chemistry, so they understand how to act in respect to the chemicals both during normal operation and in case of accidents.

When Chemistry Consulting makes a fresh review of the use of chemicals, it is often the case that chemicals can be substituted or completely dispensed with as experience shows that companies use the said chemicals for historical reasons that no longer apply.

## Material Development

### Development of materials and substances

Chemistry Consulting has experience in the development of materials and compounds especially in the development of ceramic materials and their use. Our expertise is mainly in:

- Synthesis of inorganic chemicals
- Manufacture of ceramic powders and materials
- Manufacturing of prototypes
- Development of special alloys
- Coatings and surface modifications
- Materials for implants
- Use of salt melts
- High temperature chemistry
- Tape casting
- Product development



## Chemical consultant work

### Consultancy in chemistry

If suddenly a task of a chemical nature comes along, we can quickly allocate the appropriate consultant since we have access to a wide range of professionals in all facets of chemistry. Typically these tasks show up in other technological areas where construction, mechanical or electrical engineers are employed, and it can prove beneficial to get a chemist on the job, rather than having other professionals working with chemical problems.

Clients for chemical consultancy may typically be line managers and project managers who have a very experienced staff in other areas than chemistry. We allocate the right consultant who works on an hourly basis for your business.



### IT and chemistry

IT has played a prominent role in chemistry for a long time. One gets delivered unprecedented quantity of data that can be gathered and used in numerous ways in the chemistry. However, IT also contains many pitfalls and many questions arise: Which chromatography data system (CDS) should you choose, can it be interfaced with Laboratory Information Management System (LIMS) or enterprise resource planning systems (ERP). How do they affect each other, how many consulting hours must be spent on installation, how is the license pieced together, and what are the ongoing expenses? A typical answer to all these questions is to create a User Requirement Specification, often several hundred pages, which are then sent to suppliers, who replies with long and complex answers, few understand.

Chemistry Consulting has consultants with many years of hands-on experience with purchase, implementation and operation of such systems. In contrast to IT people, we will provide consultants with competencies in chemistry i.e.. We understand the needs of our clients and will use this to give correct advice for the purchase and implementation of IT systems.



### Outsourcing

#### Successful outsourcing

Calculations of the costs of having analyses done inhouse can be made and frequently they lead to the result that it is more profitable to outsource the analyses. It is important to be very thorough in its assessment of the company you outsource to, that the contracts are concise, that the company also possesses the stated capabilities and that you have an alternative exit strategy if something goes wrong.

Unlike other outsourcing advisors Chemistry Consulting offer advice that goes into all the details of the company that it is being outsourced to.



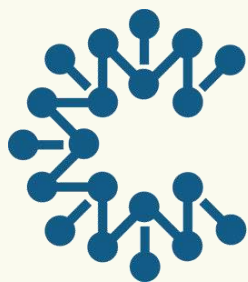
### Energy technology

#### Development of energy technology

Energy technology is the key to success in any society. Hence Chemistry Consulting has energy technology as focal area to which we provide services. Chemistry Consulting can contribute to the development of energy technology especially in the area of the technologies. We have extensive experience in developing battery and fuel cell technology, such as:

- Development of batteries and fuel cells
- Production of fuel cells
- Development of electrode materials
- Storage of energy
- Storage of hydrogen
- Electrolysis
- Development of catalysts
- Development of furnaces





# Chemistry Consulting

The consultancy services are performed in collaboration between Chemistry Consulting and Danish Power Systems.

## About Chemistry Consulting:

Chemistry Consulting has experience with general product development which gives clients, in the field of energy technology, a short cut to project completion. In the field of energy technology, Chemistry Consulting have their own facilities thus making it possible to outsource the entire development project without affecting the operation in terms of laboratory facilities, personnel or equipment.

Chemistry Consulting is a consulting firm engaged in chemical advice and chemical industry.

Chemistry Consulting was founded in 2012 and our core competence is chemistry.

Therefore, we only deal with tasks with a chemical focal point.

Our business consists of two main areas:

- *Chemical consultancy on an hourly basis*
- *Chemical project management.*

No task is too large or too small for us to undertake.

## About Danish Power Systems:

The High Temperature PEM fuel cell technology delivers clean energy and very high efficiency. Danish Power Systems delivers world class and customised critical MEA components. Danish Power Systems is a research based production company founded in 1994, working in the fields of energy and chemistry.

Our mission is to promote and develop environmentally sustainable technology to the benefit of our business partners.

Danish Power Systems is a member of:

- Confederation of Danish Industry
- Hydrogen Denmark
- The Danish Academy of Technical Sciences
- Hydrogen Europe
- American Chemical Society
- The Electrochemical Society
- Materials Research Society



Chemistry Consulting

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