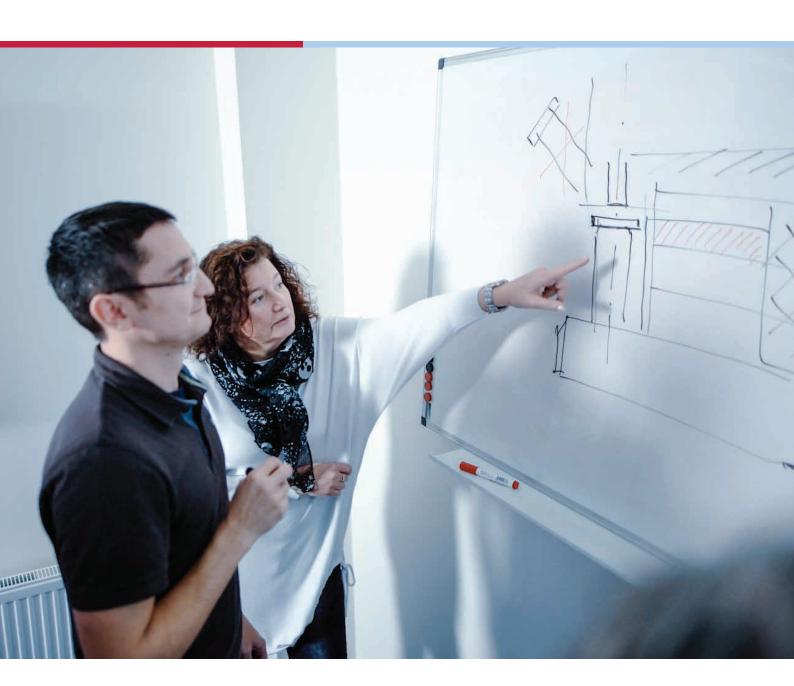


Research & Development at Delong Instruments





DEVELOPMENT & ENGINEERING



Mechanical Design

- From electron-optics components to entire electron column designs
- Components, chambers, stages, stands and many others
- Finite element analysis as part of the design

Electron Optics Design

- Concept proposals
- Testing procedures
- Finite element analysis as part of the design

Electronics Design

- Voltage and current supplies, LV, HV
- Communication and logic boards
- Complex control electronics for various purposes

Control Systems

- Complex control firmware and software
- Various control electronics
- Capable of controlling various communication protocols

UNIQUE & CUSTOM SOLUTIONS



Our Experience for Your Excellence

- Consulting
- Mechanical, electronics and control systems design
- Prototype manufacturing and tests
- Final OEM products including manufacturing

Reliable Partner for Your Projects

- Term and delivery reliability
- Creativity in finding solutions
- Significant experience and long-term partnerships

Confidentiality

- OEM solutions under strict NDA
- Outsourced R&D from first proposal up to proven prototype

REFERENCES & CONTACTS

Reference Projects

Research & Development

- Energy filtering
- Unique detection systems and solutions
- Cold emission sources

Custom Solutions

- Large field cathodoluminiscence SEM (Attolight)
- Vacuum mechatronics (ELI Beamlines, NDA customers...)
- Electron beam columns (IMS Nanofabrication, NDA customers...)

Projects

- Transmission electron microscopy for sub-visible particle analysis (MiniTEM)
- Electron beam lithography optic column (Rimana)
- Precision lithography wafer stage (Charpan)

Looking Forward to Meeting You!



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