



# QUOTE

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**DATE:** February 17, 2020  
**QUOTE #** ELI Beamlines-002  
**FOR:** Consulting Services of  
John Bellum

**To:**  
Dr. Daniel Kramer  
ELI Beamlines FZU  
Za Radnicí 835  
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Czech Republic  
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email: Daniel.Kramer@eli-beams.eu

**This quote for consulting services of John Bellum is specifically for 100 hours of his time for work to be defined and directed by ELI Beamlines generally related to large scale optical coating vacuum chambers and operations.**

### Summary of John Bellum's Qualifications

John Bellum is with Coherent Technologies as a consultant in optical coatings, and is also a distributor for OptiLayer Thin Film Software. He holds a BS degree (Georgia Institute of Technology, 1968) and a PhD degree (University of Florida, 1976), both in physics, and has more than 50 scientific publications as well as extensive experience as a physicist and optical engineer. He retired in February 2017 from Sandia National Laboratories where, for nearly 13 years, he provided technical leadership and oversight for Sandia's large optics coating operation, designing and producing high laser-induced damage threshold (LIDT) optical coatings for the large, meter-size optics of Sandia's Z-Backlighter high energy lasers. His special expertise is in the design and analysis of high LIDT optical coatings, and in the implementation and operation of large-scale vacuum chambers and thin film deposition systems for production of such coatings for petawatt class lasers. He is a senior member of both SPIE and OSA.

### Consulting Fees (in USD)

Consulting Rate	Number of Consulting Hours	Total of Consulting Fees
175/hour	100	17500

**Consulting Related Travel:** In an eventual consulting agreement, ELI Beamlines must agree to reimburse John Bellum for the costs (transportation, food, lodging) of any consulting related travel it asks of him, and the travel reimbursement will be separate from and in addition to the consulting fees.

**Thank you for your business.**

If you have any questions concerning this quote, please contact John Bellum at +1 505 514 8584 or jbellum@coherenttechnm.com.

THIS QUOTE IS VALID FOR 30 DAYS.