

Technical Areas of Expertise

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NAME	Technical Areas of Expertise: Please identify below all areas in which you consider your knowledge to be at an expert level.
TITLE	Pump Types:
··· ··	☐ Air Operated
COMPANY	☐ Centrifugal
	☐ Controlled Volume Metering
ADDRESS	☐ High speed
	☐ Other Positive Displacement
ADDRESS	Plunger
	Reciprocating and Power
CITY STATE/PROVINCE ZIP/POSTAL CODE COUNTRY	Rotary
	Sealless (Mag-Drive & Canned Motor)
PHONE	☐ Self-priming
	Submersible
FAX	☐ Vertical
	Other Equipment:
E-MAIL	☐ Compressor
	☐ Electric Motor
WEB SITE	☐ Engine
Purpose:	☐ Fans
	☐ Fluid Drive
The Hydraulic Institute maintains a "Technical Areas of	☐ Gas turbine
Expertise" profile on individuals who are candidates for the HI Canvass review process for HI Standards, Guidelines	☐ Gear
and other technical resources. As needs are identified by	☐ Instrumentation or Controls
the Institute for technical subject matter assistance the data	☐ Steam turbine
supplied with this form will assist HI Staff in matching needs	☐ Variable Frequency Drive
with qualified individuals. This may include participation	Application/Service:
on balanced HI committees where user and engineering	☐ Agriculture and irrigation
consultant expertise is needed. Completion of this form	☐ Boiler feed and other utility
does not constitute an obligation to serve if requested by the	☐ Building industry
Institute, nor does it obligate the Institute to limit its call for subject matter experts to individuals who have completed	Chemical service
this form.	☐ Circulating
	☐ Conveying
Interest Category:	☐ Cryogenic applications
(Select one):	Fire pumps and systems
☐ User ☐ Producer ☐ General Interest	☐ Food industry
	☐ HVAC
	☐ Marine applications
	☐ Mining



Technical Areas of Expertise

(Continued)

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Application/Service (continued):	Other:
☐ Mixing	☐ Expert Witness
☐ Nuclear applications	☐ Field Testing
Other Industrial or commercial	☐ Inspection Services
Petroleum	☐ Installation and Startup
☐ Pulp and Paper	☐ ISO-9001 documentation & development
☐ Pumped storage systems	Organizational Analysis
Recreation	Patent research and prosecution support
Slurry	☐ Project Management
☐ Transportation of Solids in Liquids	☐ Teaching/Education*
Wastewater	☐ Turnkey Engineering
Water	Software: Design/Analysis/Selection
Pumps and Pumping Systems:	
☐ Allowable Operating Region for Centrifugal Pumps	*Technical/Education:
☐ CFD Modeling	Please describe the courses you are qualified to teach and/or
☐ Condition Monitoring For Centrifugal Pumps	the courses you have created.
Corrosion and Erosion Analysis	
Coupling Analysis	
☐ Economics of Pumping Systems/Life Cycle	
Cost Evaluaton	
☐ Failure Analysis and Troubleshooting	
☐ Fluid Dynamics	
Forensic Analysis	
Mechanical Analysis & Design	
(including rotor dynamics & torsional analysis)	
Mechanical Seals	
Metallurgy and Materials Selection	
Noise Analysis	
NPSH Margin for Centrifugal Pumps	
Performance Correction for Centrifugal Pumps Handling Viscous Liquids	
☐ Piping Design (Hydraulic and Mechanical)	
Pump Intake Design	
Pump Systems Assessments; Optimization	
& Energy Savings	
Reliability Improvement/Maintenance cost reduction	
☐ Root Cause Analysis	
☐ Structural Analysis	Return to:
Systems Design and Upgrade	Hydraulic Institute, Inc.
☐ Vibration Analysis and Balancing	300 Interpace Parkway, Blg A. 3rd Floor
☐ Wear Analysis	Parsippany, NJ 07054
☐ Welding Engineering	
	Return completed form to the Hydraulic Institute by FAX: (973) 267-9055 or

by email: HITechnical@pumps.org cc-ing

mcosme@pumps.org